National Park Service U.S. Department of the Interior

Fire Island National Seashore Long Island, New York



# 2011 Tide Tables

# Fire Island National Seashore



Fire Island National Seashore was established in September 1964 "for the purpose of conserving and preserving for the use of future generations certain relatively unspoiled and undeveloped beaches, dunes, and other natural features within Suffolk County, New York, which possess high values to the Nation."





The annual Tide Tables booklet is a tradition at Fire Island National Seashore. It is provided as a benefit to all park users but is prepared primarily for individuals who have obtained permits to drive offroad vehicles on Fire Island's beach. The beach is a dynamic system that is constantly changing. Every tide provides a new scenic landscape. To protect that landscape and maintain Fire Island's remote character and natural resources, beach driving is limited.

From Long Island, New York to Brownsville, Texas, a string of barrier islands are located along the United States coastline. Barrier islands are large dynamic sandbars, which are constantly moving and changing. They are shaped by tides, wave action, off-shore sand movement, and human manipulation. Fire Island is one of five barrier islands along the south shore of Long Island.



Beneath its visible leaves, beach grass rhizomes and rootlets secure grains of sand that form the protective primary dune.



Mycorrhyzal fungi bind sand grains to rootlets, enhancing resistance to erosion.

Fire Island is 32 miles long with a south-facing shoreline and has been migrating from the east to the west. In 1826, the first Fire Island Lighthouse was built on the western end of the island. Today, the Fire Island Inlet is more than 5 miles west of the Lighthouse. The beach is constantly changing due to cyclic erosion and accretion of sand.

The dunes are the backbone of this dynamic barrier island that buffers Long Island from the forces of the Atlantic Ocean. Naturally formed dunes consist of multiple layers of sand held together by the roots and rhizomes of beach grass. Foot and/or vehicle traffic easily damages beach grass and its roots. To protect Fire Island's dunes always use designated dune crossings and never drive within twenty feet of the base of the dunes or the vegetation line.

Driving permits are required for all off-road driving on Fire Island. Unpermitted vehicles are restricted to roads and parking lots near the bridges connecting Fire Island to Long Island. Beach driving is permitted for some recreational uses and to a limited number of residents, contractors, essential service providers, public utilities, and official vehicles to gain access to communities with the park's boundaries.

# Thank you for your efforts to help preserve and protect Fire Island.



Overwashes are a cyclical part of the changing form of barrier islands.



Off-road driving regulations help protect natural beaches and primary dunes at Fire Island National Seashore, while providing a reasonable amount of access to island developments. Under certain conditions, the beach may be closed to vehicles for safety purposes.

## **Beach Driving Permits**

A valid permit is required for every vehicle driven on Fire Island beaches. Each Fire Island National Seashore permit has its own stipulations and requirements. Smith Point County Park and Robert Moses State Park have separate recreational use permits.

## **Sportsman's Vehicle Permits (Recreational)**

Recreational vehicles are permitted to drive on designated portions of Fire Island National Seashore beach (see map, page 12) as a means of access for fishing or hunting. Permits are issued at the Otis Pike Wilderness Visitor Center at Smith Point on or after September 1, for use between September 15 and December 31, unless beach conditions prevent or restrict driving activities. The cost of these permits is \$50.00. Call 631-281-3010 for hours of operation. A current fishing and/or hunting license is required to receive this driving permit. (A park issued hunting permit is also required for hunting on park lands.)

### **Non-Recreational Vehicle Permits**

A limited number of resident, contractor, public utility and essential service vehicles may be allowed access, subject to conditions established for each individual permit. Applications for non-recreational vehicle permits are made through the Chief Ranger's Office at Fire Island National Seashore, 120 Laurel Street, Patchogue, NY 11772. Call 631-687-4758 for information.



At certain times of the year, beach traffic may need to be diverted through some of the Fire Island communities.

While roads through these communities do not easily accommodate the 4-wheel drive vehicles needed for driving on the beach, this is a sacrifice most people are willing to make in order to retain the character of Fire Island's communities.

#### **Access to Fire Island Communities**

When Fire Island National Seashore was established in 1964, its enabling legislation stated that seventeen communities and preexisting commercial uses would be allowed to remain.

Today each community has its own character, providing a great diversity of experiences for visitors and residents.

A limited number of resident, contractor, public utility and essential service vehicles may be allowed to drive on the beach and over National Park Service land to access homes or provide services for the homes and businesses on Fire Island. *Home ownership does not automatically entitle one to a vehicle permit.* 

If you have one of the limited driving permits, please remember to be respectful of the park's and communities' resources and infrastructure. Whenever driving on the beach or through the communities, always be alert for and considerate of the people who share the road, and always be respectful of private property rights.



Limited driving helps retain the character of Fire Island and its 17 communities which rely on alternatives to driving such as bicycles and wagons.



Living on Fire Island means learning to co-exist with wildlife.



Never underestimate the power of the ocean.

Normally, vehicle travelling east—on the ocean side—has the right-of-way.



National Park Service rangers and Suffolk County Police Marine Bureau patrol Fire Island National Seashore, enforcing driving regulations on the beach and on other park lands.

## Off-Road Vehicle Rules and Regulations

## **Designated Use Only**

Recreational vehicles are permitted on Fire Island beaches as a means of access for fishing and hunting activities only. Fishing and hunting rules and regulations regarding size and limit of catch are strictly enforced. Non-recreational vehicles are permitted access only under the conditions stipulated in each permit. Misuse of vehicle or failure to obey regulations will result in a fine and loss of permit.

#### **Check Stations**

All vehicles must access Fire Island National Seashore through check stations only. Permitted vehicles must have driving sticker affixed to passenger side front bumper and permit must be kept in vehicle at all times.

### **Speed Limits**

Speed limit is 5 m.p.h. within 100 feet of pedestrians (pedestrians always have the right of way), near a beach entrance, or near posted endangered species habitat or stopped vehicles. Maximum speed on beach is 20 m.p.h.

#### **Prohibited Activities**

Access other then through check stations and riding on tailgates or bumpers are prohibited.

## Stay 20 Feet Away from Dune Vegetation

To protect the fragile primary dunes, these rules are strictly enforced: drive at least 20 feet from the base of dune or vegetation line to protect the fragile root system (rhizomes). If surf approaches the 20 foot boundary, the beach will be closed to driving. Always stay to the seaward side of any posts. Never drive on, through or behind the dunes.

### **Beach Closures**

- Fire Island beaches may be closed to driving at any time due to storms, extremely high tides, or other hazardous conditions.
- Summer vehicle access is restricted to special or essential services and law enforcement.
- The beach from the Wilderness Visitor Center at Smith Point to Long Cove will be closed to driving from March 15 through Labor Day (later if required), in compliance with the park's endangered species habitat protection plan.
- Recreational drivers may not enter the beach through the open emergency vehicle entrance when the recreational driving gate is closed.
- If the west end beach is closed, non-recreational permittees must use the inside route (Burma Trail).

### **Weekend Restrictions**

From September 15 through October 31, no entry is allowed on the beach between 9 a.m. and 6 p.m. on Saturdays, Sundays, and holidays. Recreational vehicles (from Long Cove to Smith Point) that enter before 9 a.m. may remain on the beach, but upon departure, may not re-enter until 6 p.m. Contractors, residents, municipal and essential service drivers have additional weekend restrictions.



The ocean tide on Fire Island is semi-diurnal (twice a day). Its average tidal range (amplitude) is about 4 feet (1.25 meters).



Time beach driving carefully.
As a rule of thumb, Fire Island
beaches are generally passable
from 3 hours before to 3 hours
after low tide



Never drive on beach grass. The 20-foot "Rhizome Rule" was established to help protect and encourage the growth of dunes.

A weakened dune line leaves homes and habitats behind it more vulnerable to storm damage, and increases the island's susceptibility to a breach.

## **Understanding Tides**

Approximately 70 percent of the Earth's surface is covered by a relatively thin layer of water, which responds to the gravitational attraction of the sun and moon with a daily cycle of high and low tides. Times can be predictable and vary by location. This booklet contains the Moriches Inlet tides for 2011.

Tide changes occur from east to west. Correlations between tides at two different points are neither exact nor consistent, but the map in this booklet will help you estimate the tide for your location. Keep in mind that storms or high winds may cause more extreme tides. The "feet" columns list how many feet above or below mean low water each tide is expected to be.

# Tide Adjustments Ocean Side, Fire Island:

Talisman/Barrett Beach: + 10 minutes Fire Island Lighthouse Beach: + 15 minutes Fire Island Breakwater: + 18 minutes

## on Great South Bay:

Point O'Woods: +3 1/2 hours Sayville (Browns River): +4 1/2 hours Patchogue River: +5 hours

# **Driving Safety**

For your safety, carry a jack and jack board, spare tire, shovel, tow line with chain or hook, tire pressure gauge, first aid kit, and fire extinguisher. Always lower tire pressure to 15-20 psi (pounds per square inch) to prevent washboard tracks. On the beach, stay in established tracks and at least 20 feet seaward of the beach grass.

## If You Become Stuck in the Sand...

- Do not spin your tires. Spinning will dig the vehicle in deeper.
- Check to make sure you are in four-wheel drive.
- Lower tire pressure to **15-18 psi**. (Use caution below 15 psi.)
- Dig a small amount of sand away from the front and rear of all four tires.
- If you are really buried, jack up all four wheels in turn and shovel sand underneath.
- Slowly attempt to drive backwards into your tire tracks where the sand is compacted.
- Keep front tires straight while trying to free your vehicle.
- Proceed evenly, keeping up your momentum and speed without spinning your tires.

Tow Service is not readily available on Fire Island

January 2011													
		High		Low		High		Low		High			
Date		time	feet										
Saturday	Jan. 1	4:02 a.m.	3.3	10:23 a.m.	-0.2	4:28 p.m.	2.6	10:28 p.m.	-0.2				
Sunrise: 7:15	am Sunset: 4:	·35 pm						I					
Sunday	Jan. 2	4:56 a.m.	3.3	11:14 a.m.	-0.2	5:21 p.m.	2.7	11:18 p.m.	-0.2				
Monday	Jan. 3	5:44 a.m.	3.3	12:03 p.m.	-0.3	6:10 p.m.	2.7						
Tuesday	Jan. 4			12:07 a.m.	-0.2	6:29 a.m.	3.3	12:48 p.m.	-0.3	6:55 p.m.	2.8		
Wednesda	y Jan. 5			12:52 a.m.	-0.1	7:12 a.m.	3.3	1:30 p.m.	-0.3	7:39 p.m.	2.7		
Thursday	Jan. 6			1:35 a.m.	-0.1	7:54 a.m.	3.2	2:09 p.m.	-0.2	8:23 p.m.	2.7		
Friday	Jan. 7			2:16 a.m.	0.0	8:35 a.m.	3.0	2:46 p.m.	-0.2	9:06 p.m.	2.6		
Saturday	Jan. 8			2:55 a.m.	0.1	9:18 a.m.	2.9	3:21 p.m.	-0.1	9:50 p.m.	2.5		
Sunrise: 7:15	am Sunset: 4:	42 pm							•				
Sunday	Jan. 9			3:34 a.m.	0.2	10:01 a.m.	2.7	3:56 p.m.	0.1	10:33 p.m.	2.5		
Monday	Jan. 10			4:16 a.m.	0.4	10:44 a.m.	2.5	4:32 p.m.	0.2	11:15 p.m.	2.5		
Tuesday	Jan. 11			5:06 a.m.	0.5	11:28 a.m.	2.4	5:14 p.m.	0.3	11:57 p.m.	2.5		
Wednesda	y Jan. 12			6:08 a.m.	0.6	12:14 p.m.	2.3	6:07 p.m.	0.4				
Thursday	Jan. 13	12:41 a.m.	2.5	7:16 a.m.	0.5	1:05 p.m.	2.2	7:08 p.m.	0.4				
Friday	Jan. 14	1:30 a.m.	2.6	8:17 a.m.	0.5	2:02 p.m.	2.2	8:07 p.m.	0.3				
Saturday	Jan. 15	2:26 a.m.	2.7	9:12 a.m.	0.3	3:03 p.m.	2.2	9:02 p.m.	0.2				
Sunrise: 7:13	am Sunset: 4:	49 pm											
Sunday	Jan. 16	3:25 a.m.	2.9	10:02 a.m.	0.1	4:02 p.m.	2.4	9:54 p.m.	0.0				
Monday	Jan. 17	4:20 a.m.	3.0	10:52 a.m.	-0.1	4:55 p.m.	2.5	10:46 p.m.	-0.2				
Tuesday	Jan. 18	5:10 a.m.	3.3	11:41 a.m.	-0.2	5:44 p.m.	2.7	11:38 p.m.	-0.3				
Wednesda	y Jan. 19 (	5:57 a.m.	3.5	12:28 p.m.	-0.4	6:30 p.m.	2.9						
Thursday	Jan. 20			12:29 a.m.	-0.4	6:44 a.m.	3.5	1:14 p.m.	-0.5	7:17 p.m.	3.1		
Friday	Jan. 21			1:19 a.m.	-0.5	7:31 a.m.	3.5	1:58 p.m.	-0.7	8:06 p.m.	3.2		
Saturday	Jan. 22			2:08 a.m.	-0.5	8:20 a.m.	3.5	2:42 p.m.	-0.7	8:58 p.m.	3.2		
Sunrise: 7:09	am Sunset: 4:	57 pm											
Sunday	Jan. 23			2:58 a.m.	-0.5	9:12 a.m.	3.3	3:27 p.m.	-0.5	9:53 p.m.	3.2		
Monday	Jan. 24			3:50 a.m.	-0.3	10:07 a.m.	3.1	4:15 p.m.	-0.4	10:48 p.m.	3.2		
Tuesday	Jan. 25			4:48 a.m.	-0.1	11:04 a.m.	2.9	5:09 p.m.	-0.2	11:44 p.m.	3.2		
Wednesda	y Jan. 26			5:55 a.m.	0.1	12:01 p.m.	2.7	6:12 p.m.	-0.1				
Thursday	Jan. 27	12:41 a.m.	3.1	7:06 a.m.	0.1	1:01 p.m.	2.5	7:19 p.m.	0.1				
Friday	Jan. 28	1:40 a.m.	3.0	8:13 a.m.	0.1	2:05 p.m.	2.4	8:22 p.m.	0.1				
Saturday	Jan. 29	2:43 a.m.	3.0	9:13 a.m.	0.1	3:11 p.m.	2.4	9:20 p.m.	0.1				

3.0 | 10:06 a.m. | -0.1 | 4:13 p.m. | 2.5 | 10:13 p.m. | 0.0

3.1 10:56 a.m. -0.1 5:06 p.m. 2.6 11:02 p.m. -0.1

Sunday

Monday

Sunrise: 7:03 am Sunset: 5:06 pm

Jan. 30

Jan. 31

3:44 a.m.

4:40 a.m.

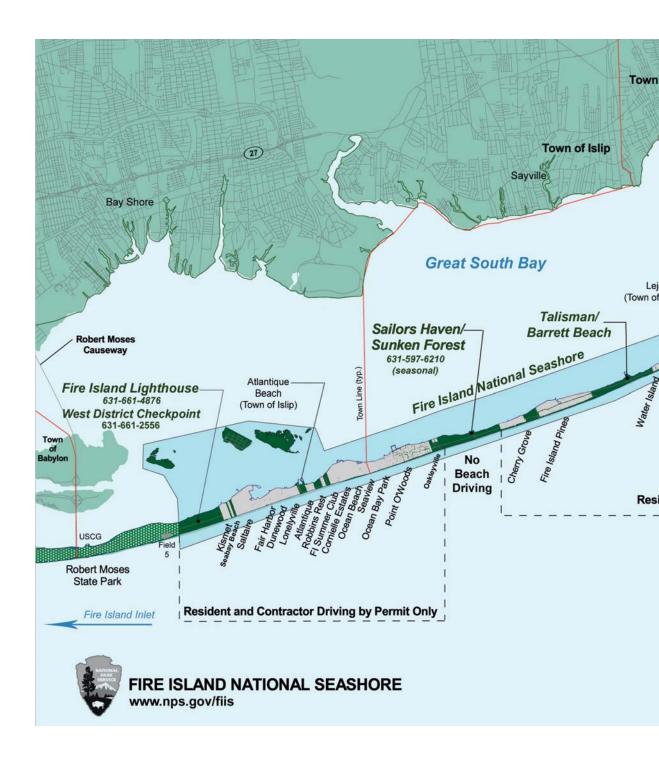
			Fe	brua	ry	2011					
		High		Low		High		Low		High	
Date		time	feet								
Tuesday	Feb. 1	5:28 a.m.	3.2	11:42 a.m.	-0.2	5:53 p.m.	2.7	11:49 p.m.	-0.1		
Wednesday	y Feb. 2	6:11 a.m.	3.2	12:24 p.m.	-0.2	6:35 p.m.	2.8				
Thursday	Feb. 3			12:33 a.m.	-0.1	6:50 a.m.	3.2	1:03 p.m.	-0.2	7:15 p.m.	2.9
Friday	Feb. 4			1:14 a.m.	-0.1	7:29 a.m.	3.1	1:39 p.m.	-0.2	7:53 p.m.	2.9
Saturday	Feb. 5			1:52 a.m.	-0.1	8:07 a.m.	3.0	2:13 p.m.	-0.2	8:31 p.m.	2.8
Sunrise: 6:56	am Sunset: 5:14	pm						•			
Sunday	Feb. 6			2:29 a.m.	0.0	8:44 a.m.	2.9	2:45 p.m.	-0.1	9:08 p.m.	2.7
Monday	Feb. 7			3:05 a.m.	0.1	9:23 a.m.	2.7	3:15 p.m.	0.0	9:44 p.m.	2.7
Tuesday	Feb. 8			3:41 a.m.	0.2	10:03 a.m.	2.5	3:45 p.m.	0.1	10:21 p.m.	2.7
Wednesda	y Feb. 9			4:21 a.m.	0.4	10:44 a.m.	2.4	4:18 p.m.	0.2	11:01 p.m.	2.6
Thursday	Feb. 10			5:12 a.m.	0.5	11:30 a.m.	2.3	5:02 p.m.	0.4	11:46 p.m.	2.6
Friday	Feb. 11			6:22 a.m.	0.6	12:21 p.m.	2.2	6:07 p.m.	0.4		
Saturday	Feb. 12	12:38 a.m.	2.7	7:35 a.m.	0.5	1:20 p.m.	2.2	7:24 p.m.	0.4		
Sunrise: 6:48	am Sunset: 5:23	pm						•			
Sunday	Feb. 13	1:39 a.m.	2.7	8:37 a.m.	0.4	2:25 p.m.	2.3	8:31 p.m.	0.2		
Monday	Feb. 14	2:46 a.m.	2.9	9:32 a.m.	0.2	3:30 p.m.	2.4	9:30 p.m.	0.1		
Tuesday	Feb. 15	3:50 a.m.	3.0	10:24 a.m.	-0.1	4:29 p.m.	2.7	10:25 p.m.	-0.2		
Wednesday	y Feb. 16	4:46 a.m.	3.3	11:13 a.m.	-0.3	5:20 p.m.	3.0	11:19 p.m.	-0.4		
Thursday	Feb. 17	5:37 a.m.	3.5	12:01 p.m.	-0.5	6:09 p.m.	3.2				
Friday	Feb. 18	)		12:12 a.m.	-0.5	6:25 a.m.	3.6	12:48 p.m.	-0.7	6:57 p.m.	3.4
Saturday	Feb. 19			1:03 a.m.	-0.7	7:13 a.m.	3.6	1:33 p.m.	-0.7	7:45 p.m.	3.5
Sunrise: 6:38	am Sunset: 5:31	pm									
Sunday	Feb. 20			1:53 a.m.	-0.7	8:02 a.m.	3.5	2:18 p.m.	-0.7	8:36 p.m.	3.5
Monday	Feb. 21			2:43 a.m.	-0.6	8:54 a.m.	3.3	3:03 p.m.	-0.5	9:29 p.m.	3.5
Tuesday	Feb. 22			3:34 a.m.	-0.4	9:49 a.m.	3.1	3:50 p.m.	-0.4	10:24 p.m.	3.3
Wednesda	y Feb. 23			4:30 a.m.	-0.2	10:46 a.m.	2.9	4:43 p.m.	-0.1	11:20 p.m.	3.2
Thursday	Feb. 24	4		5:33 a.m.	0.1	11:45 a.m.	2.7	5:46 p.m.	0.1		
Friday	Feb. 25	12:17 a.m.	3.0	6:44 a.m.	0.2	12:45 p.m.	2.5	6:57 p.m.	0.3		
Saturday	Feb. 26	1:17 a.m.	2.9	7:52 a.m.	0.2	1:48 p.m.	2.4	8:04 p.m.	0.3		
Sunrise: 6:28	am Sunset: 5:39	pm									
Sunday	Feb. 27	2:20 a.m.	2.9	8:52 a.m.	0.2	2:53 p.m.	2.4	9:03 p.m.	0.2		
Monday	Feb. 28	3:22 a.m.	2.9	9:44 a.m.	0.1	3:54 p.m.	2.5	9:55 p.m.	0.2		

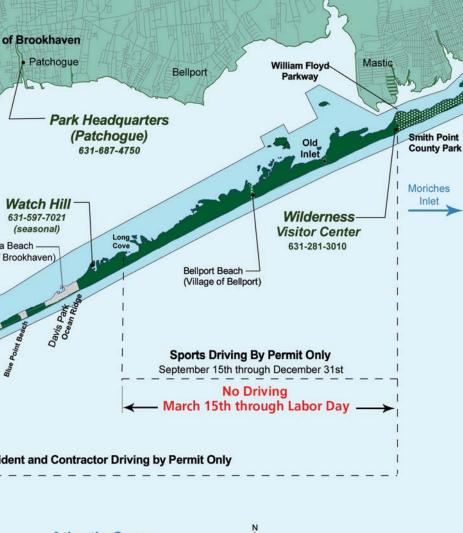
			I	/larch	2	011					
		High		Low		High		Low		High	
Date		time	feet								
Tuesday	Mar. 1	4:18 a.m.	3.0	10:31 a.m.	0.1	4:46 p.m.	2.7	10:43 p.m.	0.1		
Wednesday	y Mar. 2	5:05 a.m.	3.0	11:13 a.m.	-0.1	5:31 p.m.	2.9	11:28 p.m.	0.0		
Thursday	Mar. 3	5:47 a.m.	3.1	11:53 a.m.	-0.1	6:10 p.m.	3.0				
Friday	Mar. 4			12:10 a.m.	-0.1	6:26 a.m.	3.1	12:31 p.m.	-0.1	6:47 p.m.	3.0
Saturday	Mar. 5			12:51 a.m.	-0.1	7:02 a.m.	3.1	1:06 p.m.	-0.1	7:22 p.m.	3.0
Sunrise: 6:17	am Sunset: 5:47 p	m									
Sunday	Mar. 6			1:29 a.m.	-0.1	7:38 a.m.	3.0	1:39 p.m.	-0.1	7:55 p.m.	3.0
Monday	Mar. 7			2:05 a.m.	0.0	8:14 a.m.	2.9	2:11 p.m.	0.0	8:26 p.m.	3.0
Tuesday	Mar. 8			2:40 a.m.	0.1	8:50 a.m.	2.7	2:40 p.m.	0.1	8:57 p.m.	2.9
Wednesday	y Mar. 9			3:15 a.m.	0.2	9:28 a.m.	2.5	3:09 p.m.	0.2	9:31 p.m.	2.9
Thursday	Mar. 10			3:50 a.m.	0.4	10:09 a.m.	2.4	3:41 p.m.	0.3	10:12 p.m.	2.8
Friday	Mar. 11			4:33 a.m.	0.5	10:56 a.m.	2.4	4:21 p.m.	0.4	11:02 p.m.	2.8
Saturday	Mar. 12			5:35 a.m.	0.5	11:50 a.m.	2.3	5:22 p.m.	0.5	11:59 p.m.	2.8
	am Sunset: 6:55 p	m									
Sunday *	Mar. 13			7:54 a.m.	0.5	1:49 p.m.	2.4	7:48 p.m.	0.5		
Monday	Mar. 14	2:03 a.m.	2.9	9:03 a.m.	0.4	2:55 p.m.	2.5	9:04 p.m.	0.4		
Tuesday	Mar. 15	3:12 a.m.	2.9	10:01 a.m.	0.2	4:01 p.m.	2.7	10:07 p.m.	0.1		
Wednesday	y Mar. 16	4:20 a.m.	3.1	10:53 a.m.	-0.1	5:02 p.m.	3.0	11:05 p.m.	-0.1		
Thursday	Mar. 17	5:20 a.m.	3.3	11:43 a.m.	-0.3	5:56 p.m.	3.3				
Friday	Mar. 18			12:01 a.m.	-0.4	6:14 a.m.	3.5	12:32 p.m.	-0.5	6:46 p.m.	3.6
Saturday	Mar. 19			12:54 a.m.	-0.5	7:05 a.m.	3.6	1:20 p.m.	-0.6	7:34 p.m.	3.8
	am Sunset: 7:03 p	nm									
Sunday	Mar. 20			1:46 a.m.	-0.7	7:54 a.m.	3.6	2:07 p.m.	-0.6	8:22 p.m.	3.8
Monday	Mar. 21			2:38 a.m.	-0.7	8:44 a.m.	3.5	2:53 p.m.	-0.5	9:12 p.m.	3.8
Tuesday	Mar. 22			3:28 a.m.	-0.5	9:36 a.m.	3.3	3:40 p.m.	-0.4	10:05 p.m.	3.7
Wednesday	·			4:18 a.m.	-0.4	10:32 a.m.	3.1	4:28 p.m.	-0.2	11:00 p.m.	_
Thursday	Mar. 24			5:11 a.m.	-0.1	11:30 a.m.	2.9	5:20 p.m.	0.1	11:57 p.m.	3.3
Friday	Mar. 25			6:10 a.m.	0.1	12:28 p.m.	2.7	6:21 p.m.	0.3		
Saturday	Mar. 26	12:54 a.m.	3.1	7:17 a.m.	0.3	1:27 p.m.	2.6	7:32 p.m.	0.5		
	am Sunset: 7:10 p										
Sunday	Mar. 27	1:52 a.m.	2.9	8:24 a.m.	0.4	2:27 p.m.	2.5	8:41 p.m.	0.5		
Monday	Mar. 28	2:51 a.m.	2.9	9:23 a.m.	0.4	3:27 a.m.	2.5	9:41 p.m.	0.5		
Tuesday	Mar. 29	3:51 a.m.	2.8	10:13 a.m.	0.2	4:26 p.m.	2.7	10:32 p.m.	0.4		
Wednesday	<b>'</b>	4:46 a.m.	2.9	10:57 a.m.	0.2	5:17 p.m.	2.9	11:19 p.m.	0.2		
Thursday	Mar. 31	5:35 a.m.	2.9	11:38 a.m.	0.1	6:01 p.m.	3.0				

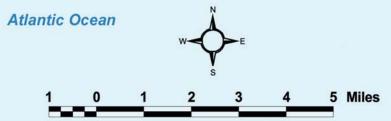
<sup>\*</sup> Daylight Saving Time begins

2011 Tide Tables

	April 2011											
		High		Low		High		Low		High		
Date		time	feet									
Friday	Apr. 1			12:03 a.m.	0.2	6:18 a.m.	3.0	12:16 p.m.	0.1	6:40 p.m.	3.1	
Saturday	Apr. 2			12:45 a.m.	0.1	6:57 a.m.	3.0	12:54 p.m.	0.1	7:16 p.m.	3.2	
Sunrise: 6:32 a	am Sunset: 7:17 pi	m										
Sunday	Apr. 3			1:26 a.m.	0.0	7:35 a.m.	3.0	1:31 p.m.	0.1	7:49 p.m.	3.2	
Monday	Apr. 4			2:05 a.m.	0.0	8:11 a.m.	2.9	2:06 p.m.	0.1	8:21 p.m.	3.2	
Tuesday	Apr. 5			2:43 a.m.	0.1	8:47 a.m.	2.9	2:39 p.m.	0.1	8:50 p.m.	3.2	
Wednesday	Apr. 6			3:19 a.m.	0.1	9:23 a.m.	2.7	3:12 p.m.	0.2	9:21 p.m.	3.1	
Thursday	Apr. 7			3:54 a.m.	0.2	10:02 a.m.	2.6	3:44 p.m.	0.3	9:56 p.m.	3.0	
Friday	Apr. 8			4:31 a.m.	0.3	10:45 a.m.	2.5	4:19 p.m.	0.4	10:40 p.m.	3.0	
Saturday	Apr. 9			5:12 a.m.	0.4	11:36 a.m.	2.5	5:01 p.m.	0.5	11:34 p.m.	3.0	
Sunrise: 6:20 a	am Sunset: 7:25 p	om					•					
Sunday	Apr. 10			6:08 a.m.	0.5	12:31 p.m.	2.5	6:01 p.m.	0.5			
Monday	Apr. 11	12:34 a.m.	3.0	7:20 a.m.	0.5	1:29 p.m.	2.5	7:24 p.m.	0.5			
Tuesday	Apr. 12	1:38 a.m.	3.0	8:29 a.m.	0.4	2:31 p.m.	2.7	8:42 p.m.	0.4			
Wednesday	Apr. 13	2:43 a.m.	3.0	9:29 a.m.	0.2	3:34 p.m.	3.0	9:47 p.m.	0.2			
Thursday	Apr. 14	3:50 a.m.	3.2	10:22 a.m.	-0.1	4:35 p.m.	3.2	10:46 p.m.	-0.1			
Friday	Apr. 15	4:53 a.m.	3.3	11:12 a.m.	-0.2	5:31 p.m.	3.5	11:42 p.m.	-0.3			
Saturday	Apr. 16	5:51 a.m.	3.4	12:02 p.m.	-0.4	6:23 p.m.	3.8					
Sunrise: 6:09 a	am Sunset: 7:32 pi	m										
Sunday	Apr. 17			12:36 a.m.	-0.4	6:44 a.m.	3.5	12:52 p.m.	-0.4	7:12 p.m.	4.0	
Monday	Apr. 18			1:30 a.m.	-0.5	7:35 a.m.	3.5	1:42 p.m.	-0.4	8:01 p.m.	4.0	
Tuesday	Apr. 19			2:21 a.m.	-0.5	8:26 a.m.	3.3	2:30 p.m.	-0.4	8:50 p.m.	3.9	
Wednesday	Apr. 20			3:11 a.m.	-0.5	9:19 a.m.	3.2	3:19 p.m.	-0.2	9:42 p.m.	3.8	
Thursday	Apr. 21			4:01 a.m.	-0.3	10:15 a.m.	3.0	4:07 p.m.	0.0	10:37 p.m.	3.5	
Friday	Apr. 22			4:51 a.m.	-0.1	11:12 a.m.	2.9	4:58 p.m.	0.2	11:38 p.m.	3.3	
Saturday	Apr. 23			5:45 a.m.	0.1	12:10 p.m.	2.8	5:56 p.m.	0.5			
Sunrise: 5:59 a	am Sunset: 7:40 p	om										
Sunday	Apr. 24	12:28 a.m.	3.1	6:45 a.m.	0.3	1:05 p.m.	2.7	7:02 p.m.	0.6			
Monday	Apr. 25	1:22 a.m.	2.9	7:47 a.m.	0.4	2:00 p.m.	2.7	8:10 p.m.	0.7			
Tuesday	Apr. 26	2:16 a.m.	2.8	8:44 a.m.	0.4	2:55 p.m.	2.7	9:10 p.m.	0.6			
Wednesday	Apr. 27	3:11 a.m.	2.7	9:33 a.m.	0.4	3:49 p.m.	2.8	10:02 p.m.	0.5			
Thursday	Apr. 28	4:05 a.m.	2.7	10:16 a.m.	0.3	4:40 p.m.	2.9	10:49 p.m.	0.4			
Friday	Apr. 29	4:57 a.m.	2.8	10:57 a.m.	0.2	5:25 p.m.	3.0	11:33 p.m.	0.3			
Saturday	Apr. 30	5:44 a.m.	2.8	11:36 a.m.	0.2	6:06 p.m.	3.2					







December 2003

#### 2011 Ferry Service

Fire Island Ferries 631-665-3600 or 666-3600 www.fireislandferries.com Bayshore to:

Kismet \*

Saltaire

Fair Harbor

Dunewood \*
Atlantique \*

Ocean Beach

Seaview \*

Ocean Bay Park\*

\*seasonal only

Cross-bay and lateral water taxi Fire Island Water Taxi

631-665-8885

www.fireislandwatertaxi.com seasonal only

Sayville Ferry Service 631-589-0810 www.sayvilleferry.com

Sayville to Sailors Haven \*

> Cherry Grove Fire Island Pines

Water Island \*

\*seasonal only Cross-bay water taxi

Davis Park Ferry Service 631-475-1665

by special arrangement

www.davisparkferry.com Patchogue (Sandspit Park) to

Davis Park \*

Patchogue (West Avenue) to Watch Hill \*

\*\*seasonal only

Cross-bay water taxi by special arrangement

National Park Service Fire Island National Seashore 631-687-4750

www.nps.gov/fiis

fiis\_information@nps.gov fiis\_superintendent@nps.gov

In An Emergency: Call 911

					20						
				May	20	11					
		High		Low		High		Low		High	
Date		time	feet								
Sunrise: 5:50	am Sunset: 7:47 p	om .									
Sunday	May 1			12:17 a.m.	0.2	6:27 a.m.	2.9	12:16 p.m.	0.2	6:43 p.m.	3.3
Monday	May 2			1:00 a.m.	0.1	7:07 a.m.	2.9	12:55 p.m.	0.2	7:17 p.m.	3.3
Tuesday	May 3			1:41 a.m.	0.1	7:45 a.m.	2.9	1:34 p.m.	0.2	7:50 p.m.	3.3
Wednesday	y May 4			2:21 a.m.	0.1	8:23 a.m.	2.8	2:12 p.m.	0.2	8:22 p.m.	3.3
Thursday	May 5			3:00 a.m.	0.1	9:01 a.m.	2.7	2:49 p.m.	0.3	8:56 p.m.	3.3
Friday	May 6			3:38 a.m.	0.1	9:43 a.m.	2.7	3:27 p.m.	0.3	9:36 p.m.	3.2
Saturday	May 7			4:17 a.m.	0.2	10:30 a.m.	2.7	4:06 p.m.	0.4	10:24 p.m.	3.2
Sunrise: 5:41	am Sunset: 7:54 p	om .									
Sunday	May 8			5:00 a.m.	0.2	11:22 a.m.	2.7	4:53 p.m.	0.4	11:19 p.m.	3.2
Monday	May 9			5:50 a.m.	0.3	12:16 p.m.	2.7	5:52 p.m.	0.5		
Tuesday	May 10	12:18 a.m.	3.1	6:52 a.m.	0.3	1:12 p.m.	2.9	7:07 p.m.	0.5		
Wednesday	/ May 11	1:17 a.m.	3.1	7:57 a.m.	0.2	2:09 p.m.	3.0	8:22 p.m.	0.4		
Thursday	May 12	2:19 a.m.	3.1	8:57 a.m.	0.1	3:09 p.m.	3.2	9:28 p.m.	0.2		
Friday	May 13	3:23 a.m.	3.1	9:51 a.m.	-0.1	4:09 p.m.	3.5	10:28 p.m.	0.0		
Saturday	May 14	4:28 a.m.	3.1	10:44 a.m.	-0.2	5:07 p.m.	3.7	11:24 p.m.	-0.2		
Sunrise: 5:34	am Sunset: 8:01 p	om .									
Sunday	May 15	5:29 a.m.	3.2	11:35 a.m.	-0.2	6:01 p.m.	3.9				
Monday	May 16			12:19 a.m.	-0.3	6:25 a.m.	3.2	12:27 p.m.	-0.2	6:52 p.m.	4.0
Tuesday	May 17 (			1:13 a.m.	-0.4	7:18 a.m.	3.2	1:19 p.m.	-0.2	7:41 p.m.	4.0
Wednesday	y May 18			2:05 a.m.	-0.4	8:09 a.m.	3.2	2:10 p.m.	-0.2	8:30 p.m.	3.9
Thursday	May 19			2:55 a.m.	-0.4	9:02 a.m.	3.1	2:59 p.m.	-0.1	9:21 p.m.	3.7
Friday	May 20			3:42 a.m.	-0.2	9:56 a.m.	3.0	3:47 p.m.	0.1	10:13 p.m.	3.5
Saturday	May 21			4:29 a.m.	-0.1	10:52 a.m.	2.9	4:36 p.m.	0.3	11:06 p.m.	3.3
Sunrise: 5:28	am Sunset: 8:08 p	om .									
Sunday	May 22			5:17 a.m.	0.1	11:46 a.m.	2.9	5:28 p.m.	0.5	11:58 p.m.	3.1
Monday	May 23			6:07 a.m.	0.2	12:37 p.m.	2.8	6:26 p.m.	0.7		
Tuesday	May 24	12:48 a.m.	2.9	7:00 a.m.	0.4	1:27 p.m.	2.8	7:30 p.m.	0.8		
Wednesday	y May 25	1:37 a.m.	2.8	7:54 a.m.	0.4	2:16 p.m.	2.8	8:31 p.m.	0.7		
Thursday	May 26	2:27 a.m.	2.7	8:44 a.m.	0.4	3:05 p.m.	2.9	9:26 p.m.	0.7		
Friday	May 27	3:20 a.m.	2.6	9:30 a.m.	0.4	3:55 p.m.	2.9	10:15 p.m.	0.5		
Saturday	May 28	4:13 a.m.	2.6	10:13 a.m.	0.4	4:43 p.m.	3.0	11:02 p.m.	0.4		
Sunrise: 5:23	am Sunset: 8:14 p	om									
Sunday	May 29	5:06 a.m.	2.6	10:55 a.m.	0.4	5:27 p.m.	3.2	11:47 p.m.			
Monday	May 30	5:54 a.m.	2.7	11:38 a.m.	0.3	6:08 p.m.	3.3				
Tuesday 2011 Tid	May 31 le Tables			12:32 a.m.	0.2	6:38 a.m.	2.7	12:21 p.m.	0.2	6:47 p.m.	3.3

	June 2011											
		High		Low		High		Low		High		
Date		time	feet									
Wednesday	June 1			1:16 a.m.	0.1	7:19 a.m.	2.8	1:05 p.m.	0.2	7:23 p.m.	3.4	
Thursday	June 2			1:59 a.m.	0.1	7:59 a.m.	2.8	1:48 p.m.	0.2	8:00 p.m.	3.5	
Friday	June 3			2:41 a.m.	0.0	8:41 a.m.	2.8	2:31 p.m.	0.2	8:39 p.m.	3.4	
Saturday	June 4			3:21 a.m.	0.0	9:25 a.m.	2.8	3:14 p.m.	0.2	9:23 p.m.	3.4	
Sunrise: 5:20 a	am Sunset: 8:19 p	om					•					
Sunday	June 5			4:02 a.m.	0.0	10:14 a.m.	2.8	3:58 p.m.	0.2	10:12 p.m.	3.3	
Monday	June 6			4:44 a.m.	0.1	11:07 a.m.	2.9	4:46 p.m.	0.3	11:07 p.m.	3.3	
Tuesday	June 7			5:31 a.m.	0.1	12:00 p.m.	3.0	5:43 p.m.	0.4			
Wednesday	June 8	12:03 a.m.	3.2	6:25 a.m.	0.1	12:54 p.m.	3.1	6:52 p.m.	0.4			
Thursday	June 9	1:00 a.m.	3.1	7:26 a.m.	0.1	1:49 p.m.	3.2	8:05 p.m.	0.4			
Friday	June 10	1:59 a.m.	3.0	8:27 a.m.	0.1	2:46 p.m.	3.3	9:11 p.m.	0.2			
Saturday	June 11	3:01 a.m.	3.0	9:25 a.m.	0.0	3:46 p.m.	3.5	10:12 p.m.	0.1			
Sunrise: 5:19 a	am Sunset: 8:23 p	om .						1				
Sunday	June 12	4:06 a.m.	2.9	10:20 a.m.	-0.1	4:45 p.m.	3.7	11:09 p.m.	-0.1			
Monday	June 13	5:10 a.m.	3.0	11:13 a.m.	-0.1	5:42 p.m.	3.8					
Tuesday	June 14			12:04 a.m.	-0.2	6:08 a.m.	3.0	12:07 p.m.	-0.1	6:34 p.m.	3.8	
Wednesday	June 15			12:57 a.m.	-0.2	7:02 a.m.	3.0	1:00 p.m.	-0.1	7:24 p.m.	3.8	
Thursday	June 16			1:48 a.m.	-0.2	7:53 a.m.	3.1	1:52 p.m.	0.0	8:12 p.m.	3.8	
Friday	June 17			2:36 a.m.	-0.2	8:43 a.m.	3.0	2:40 p.m.	0.1	9:00 p.m.	3.6	
Saturday	June 18			3:21 a.m.	-0.2	9:34 a.m.	3.0	3:27 p.m.	0.2	9:48 p.m.	3.4	
Sunrise: 5:19 a	am Sunset: 8:25 p	om										
Sunday	June 19			4:03 a.m.	-0.1	10:25 a.m.	2.9	4:11 p.m.	0.3	10:37 p.m.	3.2	
Monday	June 20			4:45 a.m.	0.1	11:15 a.m.	2.9	4:57 p.m.	0.5	11:24 p.m.	3.0	
Tuesday	June 21			5:26 a.m.	0.2	12:03 p.m.	2.9	5:46 p.m.	0.7			
Wednesday	June 22	12:11 a.m.	2.9	6:10 a.m.	0.4	12:48 p.m.	2.9	6:43 p.m.	0.8			
Thursday	June 23	12:57 a.m.	2.7	6:57 a.m.	0.4	1:33 p.m.	2.9	7:45 p.m.	0.8			
Friday	June 24	1:44 a.m.	2.6	7:48 a.m.	0.5	2:18 p.m.	2.9	8:45 p.m.	0.7			
Saturday	June 25	2:34 a.m.	2.5	8:39 a.m.	0.5	3:05 p.m.	2.9	9:39 p.m.	0.7			
Sunrise: 5:21 a	am Sunset: 8:26 p	om										
Sunday	June 26	3:28 a.m.	2.5	9:29 a.m.	0.5	3:56 p.m.	3.0	10:28 p.m.	0.5			
Monday	June 27	4:25 a.m.	2.5	10:16 a.m.	0.4	4:46 p.m.	3.1	11:16 p.m.	0.4			
Tuesday	June 28	5:19 a.m.	2.5	11:03 a.m.	0.4	5:34 p.m.	3.2					
Wednesday	June 29			12:03 a.m.	0.2	6:08 a.m.	2.7	11:51 a.m.	0.3	6:18 p.m.	3.3	
Thursday	June 30			12:49 a.m.	0.1	6:53 a.m.	2.8	12:39 p.m.	0.2	7:00 p.m.	3.5	

	July 2011										
		High		Low		High		Low		High	
Date		time	feet								
Friday	Jul. 1			1:35 a.m.	0.0	7:36 a.m.	2.9	1:27 p.m.	0.1	7:41 p.m.	3.5
Saturday	Jul. 2			2:18 a.m.	-0.1	8:19 a.m.	3.0	2:14 p.m.	0.1	8:24 p.m.	3.6
Sunrise: 5:24	am Sunset: 8:26	рт									
Sunday	Jul. 3			3:00 a.m.	-0.1	9:05 a.m.	3.0	3:00 p.m.	0.1	9:09 p.m.	3.5
Monday	Jul. 4			3:42 a.m.	-0.2	9:55 a.m.	3.1	3:47 p.m.	0.1	9:59 p.m.	3.5
Tuesday	Jul. 5			4:24 a.m.	-0.2	10:47 a.m.	3.2	4:37 p.m.	0.1	10:52 p.m.	3.3
Wednesday	Jul. 6			5:09 a.m.	-0.1	11:41 a.m.	3.2	5:32 p.m.	0.2	11:47 p.m.	3.2
Thursday	Jul. 7			6:00 a.m.	0.0	12:34 p.m.	3.3	6:37 p.m.	0.3		
Friday	Jul. 8	12:44 a.m.	3.1	6:58 a.m.	0.1	1:29 p.m.	3.4	7:48 p.m.	0.4		
Saturday	Jul. 9	1:42 a.m.	2.9	8:01 a.m.	0.1	2:26 p.m.	3.4	8:56 p.m.	0.3		
Sunrise: 5:29	am Sunset: 8:24	om									
Sunday	Jul. 10	2:44 a.m.	2.8	9:04 a.m.	0.1	3:26 p.m.	3.5	9:57 p.m.	0.2		
Monday	Jul. 11	3:50 a.m.	2.8	10:02 a.m.	0.1	4:27 p.m.	3.5	10:54 p.m.	0.1		
Tuesday	Jul. 12	4:55 a.m.	2.8	10:58 a.m.	0.1	5:26 p.m.	3.6	11:48 p.m.	0.0		
Wednesday	/ Jul. 13	5:54 a.m.	2.9	11:52 a.m.	0.1	6:19 p.m.	3.7				
Thursday	Jul. 14			12:40 a.m.	-0.1	6:47 a.m.	3.0	12:44 p.m.	0.1	7:07 p.m.	3.7
Friday	Jul. 15			1:28 a.m.	-0.1	7:36 a.m.	3.0	1:33 p.m.	0.1	7:53 p.m.	3.6
Saturday	Jul. 16			2:13 a.m.	-0.1	8:22 a.m.	3.0	2:20 p.m.	0.1	8:36 p.m.	3.5
Sunrise: 5:34	am Sunset: 8:20	рт									
Sunday	Jul. 17			2:54 a.m.	-0.1	9:08 a.m.	3.0	3:03 p.m.	0.2	9:20 p.m.	3.3
Monday	Jul. 18			3:33 a.m.	-0.1	9:53 a.m.	3.0	3:45 p.m.	0.3	10:03 p.m.	3.2
Tuesday	Jul. 19			4:09 a.m.	0.1	10:38 a.m.	3.0	4:26 p.m.	0.4	10:48 p.m.	3.0
Wednesday	/ Jul. 20			4:44 a.m.	0.2	11:22 a.m.	2.9	5:08 p.m.	0.6	11:32 p.m.	2.9
Thursday	Jul. 21			5:19 a.m.	0.4	12:04 p.m.	2.9	5:56 p.m.	0.7		
Friday	Jul. 22	12:16 a.m.	2.7	5:59 a.m.	0.5	12:46 p.m.	2.9	6:54 p.m.	0.8		
Saturday	Jul. 23	1:02 a.m.	2.5	6:47 a.m.	0.6	1:29 p.m.	2.9	7:58 p.m.	0.8		
Sunrise: 5:40	am Sunset: 8:15	от									
Sunday	Jul. 24	1:51 a.m.	2.4	7:45 a.m.	0.7	2:15 p.m.	2.9	8:59 p.m.	8.0		
Monday	Jul. 25	2:45 a.m.	2.4	8:45 a.m.	0.6	3:07 p.m.	2.9	9:54 p.m.	0.7		
Tuesday	Jul. 26	3:44 a.m.	2.4	9:41 a.m.	0.5	4:03 p.m.	3.0	10:44 p.m.	0.5		
Wednesday	/ Jul. 27	4:43 a.m.	2.5	10:33 a.m.	0.4	4:59 p.m.	3.2	11:33 p.m.	0.3		
Thursday	Jul. 28	5:37 a.m.	2.7	11:24 a.m.	0.3	5:49 p.m.	3.4				
Friday	Jul. 29			12:20 a.m.	0.1	6:25 a.m.	2.9	12:15 p.m.	0.1	6:36 p.m.	3.6
Saturday	Jul. 30			1:06 a.m.	-0.1	7:11 a.m.	3.1	1:06 p.m.	0.0	7:20 p.m.	3.7
Sunrise: 5:46	am Sunset: 8:08	om									
Sunday	Jul. 31			1:51 a.m.	-0.2	7:56 a.m.	3.2	1:55 p.m.	-0.1	8:05 p.m.	3.7

			A	ugus	t 2	2011					
		High		Low		High		Low		High	
Date		time	feet								
Monday	Aug. 1			2:35 a.m.	-0.3	8:42 a.m.	3.3	2:44 p.m.	-0.1	8:52 p.m.	3.7
Tuesday	Aug. 2			3:17 a.m.	-0.4	9:31 a.m.	3.5	3:33 p.m.	-0.1	9:42 p.m.	3.5
Wednesday	y Aug. 3			4:00 a.m.	-0.3	10:23 a.m.	3.5	4:23 p.m.	-0.1	10:35 p.m.	3.4
Thursday	Aug. 4			4:45 a.m.	-0.2	11:18 a.m.	3.5	5:18 p.m.	0.1	11:32 p.m.	3.2
Friday	Aug. 5			5:35 a.m.	-0.1	12:13 p.m.	3.5	6:21 p.m.	0.2		
Saturday	Aug. 6	12:30 a.m.	3.0	6:34 a.m.	0.1	1:09 p.m.	3.5	7:31 p.m.	0.4		
Sunrise: 5:53	am Sunset: 8:00	pm									
Sunday	Aug. 7	1:29 a.m.	2.9	7:41 a.m.	0.2	2:07 p.m.	3.4	8:40 p.m.	0.4		
Monday	Aug. 8	2:31 a.m.	2.7	8:48 a.m.	0.3	3:08 p.m.	3.3	9:43 p.m.	0.3		
Tuesday	Aug. 9	3:37 a.m.	2.7	9:49 a.m.	0.3	4:11 p.m.	3.3	10:39 p.m.	0.2		
Wednesday	y Aug. 10	4:42 a.m.	2.8	10:45 a.m.	0.2	5:10 p.m.	3.4	11:31 p.m.	0.1		
Thursday	Aug. 11	5:40 a.m.	2.9	11:37 a.m.	0.2	6:02 p.m.	3.5				
Friday	Aug. 12			12:18 a.m.	0.1	6:30 a.m.	3.0	12:27 p.m.	0.2	6:48 p.m.	3.5
Saturday	Aug. 13			1:03 a.m.	0.0	7:15 a.m.	3.1	1:13 p.m.	0.1	7:30 p.m.	3.5
Sunrise: 6:00	am Sunset: 7:51 p	om									
Sunday	Aug. 14			1:44 a.m.	-0.1	7:57 a.m.	3.2	1:57 p.m.	0.2	8:11 p.m.	3.4
Monday	Aug. 15			2:23 a.m.	0.0	8:37 a.m.	3.2	2:38 p.m.	0.2	8:50 p.m.	3.3
Tuesday	Aug. 16			2:58 a.m.	0.0	9:17 a.m.	3.2	3:18 p.m.	0.3	9:30 p.m.	3.2
Wednesday	y Aug. 17			3:31 a.m.	0.1	9:56 a.m.	3.1	3:56 p.m.	0.4	10:10 p.m.	3.0
Thursday	Aug. 18			4:03 a.m.	0.2	10:35 a.m.	3.0	4:34 p.m.	0.5	10:53 p.m.	2.8
Friday	Aug. 19			4:35 a.m.	0.4	11:14 a.m.	3.0	5:15 p.m.	0.7	11:37 p.m.	2.6
Saturday	Aug. 20			5:08 a.m.	0.5	11:55 a.m.	2.9	6:04 p.m.	0.8		
Sunrise: 6:07	am Sunset: 7:41	pm									
Sunday	Aug. 21	12:23 a.m.	2.5	5:49 a.m.	0.7	12:38 p.m.	2.9	7:09 p.m.	0.8		
Monday	Aug. 22	1:12 a.m.	2.4	6:48 a.m.	0.7	1:27 p.m.	2.9	8:18 p.m.	0.8		
Tuesday	Aug. 23	2:07 a.m.	2.4	8:02 a.m.	0.7	2:22 p.m.	2.9	9:19 p.m.	0.7		
Wednesday	y Aug. 24	3:07 a.m.	2.5	9:09 a.m.	0.6	3:23 p.m.	3.0	10:12 p.m.	0.5		
Thursday	Aug. 25	4:08 a.m.	2.6	10:06 a.m.	0.4	4:24 p.m.	3.2	11:01 p.m.	0.3		
Friday	Aug. 26	5:06 a.m.	2.9	11:00 a.m.	0.2	5:20 p.m.	3.4	11:49 p.m.	0.1		
Saturday	Aug. 27	5:57 a.m.	3.1	11:53 a.m.	0.1	6:11 p.m.	3.6				
Sunrise: 6:14	am Sunset: 7:30	pm									
Sunday	Aug. 28			12:35 a.m.	-0.1	6:45 a.m.	3.3	12:45 p.m.	-0.1	6:58 p.m.	3.8
Monday	Aug. 29			1:21 a.m.	-0.3	7:31 a.m.	3.6	1:36 p.m.	-0.2	7:44 p.m.	3.8
Tuesday	Aug. 30			2:06 a.m.	-0.4	8:17 a.m.	3.7	2:27 p.m.	-0.3	8:32 p.m.	3.7
Wednesday	y Aug. 31			2:51 a.m.	-0.4	9:06 a.m.	3.8	3:17 p.m.	-0.3	9:23 p.m.	3.6

		5	ep	temk	)e	r 201'	<u>1                                    </u>				
		High		Low		High		Low		High	
Date		time	feet	time	feet	time	feet	time	feet	time	feet
Thursday	Sept. 1			3:35 a.m.	-0.3	9:59 a.m.	3.8	4:08 p.m.	-0.2	10:18 p.m.	3.3
Friday	Sept. 2			4:22 a.m.	-0.2	10:54 a.m.	3.7	5:02 p.m.	0.0	11:16 p.m.	3.2
Saturday	Sept. 3			5:13 a.m.	0.1	11:52 a.m.	3.6	6:03 p.m.	0.2		
Sunrise: 6:21	am Sunset: 7:19 p	om									
Sunday	Sept. 4	12:16 a.m.	3.0	6:13 a.m.	0.2	12:50 p.m.	3.5	7:13 p.m.	0.4		
Monday	Sept. 5	1:17 a.m.	2.9	7:23 a.m.	0.4	1:49 p.m.	3.3	8:23 p.m.	0.4		
Tuesday	Sept. 6	2:19 a.m.	2.7	8:34 a.m.	0.5	2:51 p.m.	3.2	9:26 p.m.	0.4		
Wednesday	/ Sept. 7	3:24 a.m.	2.7	9:36 a.m.	0.4	3:52 p.m.	3.2	10:20 p.m.	0.3		
Thursday	Sept. 8	4:26 a.m.	2.9	10:31 a.m.	0.4	4:50 p.m.	3.3	11:08 p.m.	0.2		
Friday	Sept. 9	5:22 a.m.	3.0	11:20 a.m.	0.3	5:41 p.m.	3.3	11:51 p.m.	0.1		
Saturday	Sept. 10	6:09 a.m.	3.1	12:07 p.m.	0.2	6:25 p.m.	3.3				
Sunrise: 6:28	am Sunset: 7:07	pm						•			
Sunday	Sept. 11			12:32 a.m.	0.1	6:51 a.m.	3.2	12:51 p.m.	0.2	7:05 p.m.	3.3
Monday	Sept. 12			1:11 a.m.	0.1	7:29 a.m.	3.3	1:33 p.m.	0.2	7:43 p.m.	3.3
Tuesday	Sept. 13			1:47 a.m.	0.1	8:05 a.m.	3.3	2:13 p.m.	0.2	8:20 p.m.	3.2
Wednesday	/ Sept. 14			2:22 a.m.	0.1	8:40 a.m.	3.3	2:51 p.m.	0.2	8:58 p.m.	3.0
Thursday	Sept. 15			2:55 a.m.	0.2	9:14 a.m.	3.2	3:28 p.m.	0.4	9:36 p.m.	2.9
Friday	Sept. 16			3:27 a.m.	0.3	9:47 a.m.	3.1	4:05 p.m.	0.5	10:16 p.m.	2.7
Saturday	Sept. 17			3:57 a.m.	0.4	10:22 a.m.	3.0	4:42 p.m.	0.6	11:00 p.m.	2.6
Sunrise: 6:34	am Sunset: 6:56	pm									
Sunday	Sept. 18			4:29 a.m.	0.5	11:03 a.m.	3.0	5:25 p.m.	0.7	11:48 p.m.	2.5
Monday	Sept. 19			5:08 a.m.	0.7	11:51 a.m.	2.9	6:23 p.m.	0.8		
Tuesday	Sept. 20	12:40 a.m.	2.4	6:03 a.m.	0.8	12:45 p.m.	2.9	7:36 p.m.	0.8		
Wednesday	/ Sept. 21	1:35 a.m.	2.5	7:23 a.m.	0.8	1:44 p.m.	3.0	8:43 p.m.	0.7		
Thursday	Sept. 22	2:35 a.m.	2.5	8:40 a.m.	0.7	2:47 p.m.	3.0	9:38 p.m.	0.5		
Friday	Sept. 23	3:36 a.m.	2.7	9:42 a.m.	0.4	3:50 p.m.	3.2	10:28 p.m.	0.2		
Saturday	Sept. 24	4:35 a.m.	3.0	10:38 a.m.	0.2	4:50 p.m.	3.4	11:16 p.m.	0.0		
Sunrise: 6:41	am Sunset: 6:44	pm					•	•			
Sunday	Sept. 25	5:29 a.m.	3.3	11:32 a.m.	-0.1	5:44 p.m.	3.6				
Monday	Sept. 26			12:03 a.m.	-0.2	6:18 a.m.	3.7	12:25 p.m.	-0.2	6:35 p.m.	3.7
Tuesday	Sept. 27			12:50 a.m.	-0.4	7:06 a.m.	3.9	1:18 p.m.	-0.4	7:23 p.m.	3.7
Wednesday	/ Sept. 28			1:37 a.m.	-0.4	7:53 a.m.	4.0	2:10 p.m.	-0.4	8:13 p.m.	3.6
Thursday	Sept. 29			2:24 a.m.	-0.4	8:42 a.m.	4.0	3:01 p.m.	-0.4	9:05 p.m.	3.5
Friday	Sept. 30			3:12 a.m.	-0.3	9:35 a.m.	3.9	3:52 p.m.	-0.2	10:01 p.m.	3.3

Date Date Date Date Date Date Date Date				0	ctobe	r	2011					
Saturday Oct. 1 Sunnise: 6.48 am Sunset: 6.32 pm  Sunday Oct. 2 Monday Oct. 3 Tuesday Oct. 4  1:03 a.m. 2.9 Sinday Oct. 6 Sinday Oct. 6 Sinda m. 2.9 Sinda m. 2.9 Sinday Oct. 6 Sinda m. 2.9 Sinday Oct. 6 Sinda m. 2.9 Sinday Oct. 7 Sinday Oct. 7 Sinday Oct. 7 Sinday Oct. 8 Sinday Oct. 9 Sinday Oct. 10 Sinday Oct. 10 Sinday Oct. 11 Sinday Oct. 12 Sinday Oct. 13 Sinday Oct. 13 Sinday Oct. 13 Sinday Oct. 14 Sinday Oct. 15 Sinday Oct. 16 Sinday Oct. 16 Sinday Oct. 17 Sinday Oct. 18 Sinday Oct. 18 Sinday Oct. 18 Sinday Oct. 19 Sinday Oct. 19 Sinday Oct. 19 Sinday Oct. 10 Sinday Oct. 20 Sinday Oct. 20 Sinday Oct. 21 Sinday Oct. 21 Sinday Oct. 22 Sinday Oct. 23 Sinday Oct. 23 Sinday Oct. 24 Sinday Oct. 25 Sinday Oct. 25 Sinday Oct. 27 Sinday Oct. 27 Sinday Oct. 28 Sinday Oct. 28 Sinday Oct. 28 Sinday Oct. 28 Sinday Oct. 27 Sinday Oct. 28 Sinday Oct. 29 Sinday Oct. 30 Sinday Oct. 30 Sinday Oct. 30 Sinday Oct. 30 Sinda M. 34 Sinda m. 34 Sinday Oct. 30 Sinday Oct. 3			High		Low		High		Low		High	
Sunday         Oct. 2         4:53 a.m.         0.1         11:30 a.m.         3.5         5:44 p.m.         0.2           Monday         Oct. 3         12:02 a.m.         2.9         5:53 a.m.         0.4         12:30 p.m.         3.2         6:50 p.m.         0.4           Ivesday         Oct. 5         2:04 a.m.         2.8         7:03 a.m.         0.5         1:29 p.m.         3.1         9:01 p.m.         0.4           Wednesday         Oct. 6         3:04 a.m.         2.8         9:18 a.m.         0.5         3:26 p.m.         3.0         9:52 p.m.         0.3           Friday         Oct. 7         4:03 a.m.         2.8         9:18 a.m.         0.5         3:26 p.m.         3.0         9:52 p.m.         0.3           Saturday         Oct. 7         4:03 a.m.         2.9         10:11 a.m.         0.4         4:22 p.m.         3.0         10:37 p.m.         0.2           Saturday         Oct. 8         5:41 a.m.         3.2         11:43 a.m.         0.4         5:12 p.m.         3.1         11:15 p.m.         0.1           Sunday         Oct. 10         6:22 a.m.         3.2         11:43 a.m.         0.2         5:57 p.m.         3.1         11:57 p.m.         0.1	Date		time	feet								
Sunday         Oct. 2         4:53 a.m.         0.1         11:30 a.m.         3.5         5:44 p.m.         0.2           Monday         Oct. 3         12:02 a.m.         2.9         5:53 a.m.         0.4         12:30 p.m.         3.3         6:50 p.m.         0.4           Wednesday         Oct. 4         10:03 a.m.         2.8         7:03 a.m.         0.6         2:28 p.m.         3.0         9:5p p.m.         0.4           Thursday         Oct. 6         3:04 a.m.         2.8         9:18 a.m.         0.5         3:26 p.m.         3.0         9:5p p.m.         0.3           Friday         Oct. 7         4:03 a.m.         2.9         10:11 a.m.         0.4         4:22 p.m.         3.0         10:37 p.m.         0.2           Surises: 6:56 am Sursest: 6:21 pm         3.0         10:59 a.m.         0.4         5:57 p.m.         3.1         11:57 p.m.         0.2           Monday         Oct. 9         5:41 a.m.         3.2         11:43 a.m.         0.2         5:57 p.m.         3.1         11:57 p.m.         0.2           Sunday         Oct. 10         6:22 a.m.         3.2         11:43 a.m.         0.2         5:57 p.m.         3.1         11:57 p.m.         0.2         7:16 p.m. <td>Saturday</td> <td>Oct. 1</td> <td></td> <td></td> <td>4:01 a.m.</td> <td>-0.1</td> <td>10:31 a.m.</td> <td>3.8</td> <td>4:46 p.m.</td> <td>-0.1</td> <td>11:01 p.m.</td> <td>3.0</td>	Saturday	Oct. 1			4:01 a.m.	-0.1	10:31 a.m.	3.8	4:46 p.m.	-0.1	11:01 p.m.	3.0
Monday Oct. 3   12:02 a.m. 2.9   5:53 a.m. 0.4   12:30 p.m. 3.3   6:50 p.m. 0.4    Tuesday Oct. 4	Sunrise: 6:48	am Sunset: 6:32	рт									
Tuesday Oct. 4	Sunday	Oct. 2			4:53 a.m.	0.1	11:30 a.m.	3.5	5:44 p.m.	0.2		
Wednesday Oct. 5         2:04 a.m.         2.7         8:15 a.m.         0.6         2:28 p.m.         3.1         9:01 p.m.         0.4           Friday         Oct. 6         3:04 a.m.         2.8         9:18 a.m.         0.5         3:26 p.m.         3.0         9:52 p.m.         0.3           Friday         Oct. 7         4:03 a.m.         2.9         10:11 a.m.         0.4         4:22 p.m.         3.0         10:37 p.m.         0.2           Sunday         Oct. 9         5:41 a.m.         3.2         11:43 a.m.         0.2         5:57 p.m.         3.1         11:57 p.m.         0.1           Monday         Oct. 10         6:22 a.m.         3.3         12:25 a.m.         0.2         6:37 p.m.         3.2         1           Wednesday         Oct. 12         1:11 a.m.         0.1         6:59 a.m.         3.3         1:08 p.m.         0.2         7:16 p.m.           Wednesday         Oct. 12         1:11 a.m.         0.1         6:59 a.m.         3.3         1:08 p.m.         0.2         7:16 p.m.           Wednesday         Oct. 13         1:47 a.m.         0.2         8:06 a.m.         3.3         1:08 p.m.         0.2         9:07 p.m.           Saturday         Oct. 14	Monday	Oct. 3	12:02 a.m.	2.9	5:53 a.m.	0.4	12:30 p.m.	3.3	6:50 p.m.	0.4		
Thursday Oct. 6 Friday Oct. 7 A:03 a.m. 2.8 9:18 a.m. 0.5 3:26 p.m. 3.0 9:52 p.m. 0.3  Saturday Oct. 8 A:56 a.m. 3.0 10:59 a.m. 0.4 4:22 p.m. 3.1 11:18 p.m. 0.2  Sunday Oct. 9 S:41 a.m. 3.2 11:43 a.m. 0.2 5:57 p.m. 3.1 11:18 p.m. 0.2  Sunday Oct. 10 G:22 a.m. 3.3 12:26 a.m. 0.2 6:37 p.m. 3.2  Tuesday Oct. 11 Wednesday Oct. 12  Initial a.m. 0.1 6:59 a.m. 3.3 1:08 p.m. 0.2 7:53 p.m.  Thursday Oct. 13 Friday Oct. 14 Sunday Oct. 15 Sunday Oct. 15 Sunday Oct. 15 Sunday Oct. 16 Monday Oct. 16 Monday Oct. 17 Tuesday Oct. 17 Tuesday Oct. 18 Wednesday Oct. 19 Thursday Oct. 20 Thursday Oct. 21 Thursday Oct. 21 Thursday Oct. 21 Thursday Oct. 22 Thursday Oct. 23 Thursday Oct. 21 Thursday Oct. 23 Thursday Oct. 24 Thursday Oct. 25 Sunday Oct. 25 Sunday Oct. 26 Thursday Oct. 27 Thursday Oct. 28 Sunday Oct. 29 Sunday Oct. 20 Thursday Oct. 20 Thursday Oct. 21 Sunday Oct. 22 Sunday Oct. 23 Thursday Oct. 24 Thursday Oct. 25 Sunday Oct. 26 Sunday Oct. 27 Thursday Oct. 28 Sunday Oct. 29 Su	Tuesday	Oct. 4	1:03 a.m.	2.8	7:03 a.m.	0.5	1:29 p.m.	3.2	7:59 p.m.	0.4		
Friday Oct. 7 4:03 a.m. 2.9 10:11 a.m. 0.4 4:22 p.m. 3.0 10:37 p.m. 0.2 Saturday Oct. 8 4:56 a.m. 3.0 10:59 a.m. 0.4 5:12 p.m. 3.1 11:18 p.m. 0.2 Sunrise: 6:56 am Sunset: 6:21 pm  Sunday Oct. 9 5:41 a.m. 3.2 11:43 a.m. 0.2 5:57 p.m. 3.1 11:57 p.m. 0.1 Sunday Oct. 10 6:22 a.m. 3.3 12:26 a.m. 0.2 6:37 p.m. 3.2 10:88 p.m. 0.2 7:16 p.m. Wednesday Oct. 11 12:35 a.m. 0.1 6:59 a.m. 3.3 1:08 p.m. 0.2 7:16 p.m. Wednesday Oct. 12 14 11:11 a.m. 0.1 7:33 a.m. 3.3 1:08 p.m. 0.2 7:53 p.m. Friday Oct. 13 1447 a.m. 0.2 8:06 a.m. 3.3 2:27 p.m. 0.2 8:30 p.m. Friday Oct. 14 2:22 a.m. 0.2 8:37 a.m. 3.3 3:05 p.m. 0.2 9:07 p.m. Saturday Oct. 15 2:56 a.m. 0.3 9:08 a.m. 3.2 3:41 p.m. 0.4 9:46 p.m. Sunrise: 7:03 am Sunset: 6:10 pm  Sunday Oct. 16 3:29 a.m. 0.4 9:42 a.m. 3.1 4:18 p.m. 0.4 9:46 p.m. Sunrise: 7:03 am Sunset: 6:10 pm  Sunday Oct. 17 4:03 a.m. 0.5 10:23 a.m. 3.0 5:49 p.m. 0.5 11:20 p.m. 10:9 a.m. 2.5 5:36 a.m. 0.7 12:13 p.m. 3.0 5:49 p.m. 0.6 11:20 p.m. 10:9 a.m. 2.5 5:536 a.m. 0.7 12:13 p.m. 3.0 8:04 p.m. 0.5 Friday Oct. 20 1:09 a.m. 2.5 6:52 a.m. 0.7 12:13 p.m. 3.0 8:04 p.m. 0.5 Sturday Oct. 21 2:07 a.m. 2.7 8:12 a.m. 0.6 2:15 p.m. 3.0 9:03 p.m. 0.3 Sturday Oct. 22 3:06 a.m. 2.9 9:19 a.m. 0.4 3:18 p.m. 3.2 9:55 p.m. 0.1 Sturday Oct. 23 8:06 a.m. 3.2 10:17 a.m. 0.1 4:20 p.m. 3.2 10:44 p.m. 0.5 Sturday Oct. 25 5:54 a.m. 3.8 12:06 p.m. 0.4 1:31 p.m. 3.0 1:35 p.m. 0.5 Sturday Oct. 26 5:54 a.m. 3.8 12:06 p.m. 0.4 3:18 p.m. 3.2 10:44 p.m. 0.5 Sturday Oct. 26 5:54 a.m. 3.8 12:06 p.m. 0.4 3:18 p.m. 3.2 10:34 p.m. 0.5 Sturday Oct. 26 5:54 a.m. 3.8 12:06 p.m. 0.4 4:22 a.m. 4.0 1:00 p.m. 0.4 7:04 p.m. 11:11 a.m. 0.4 4:22 a.m. 4.0 1:00 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4 4:22 a.m. 4.0 2:45 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4 7:32 a.m. 4.1 1:53 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4 7:32 a.m. 4.0 1:00 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4 8:22 a.m. 4.0 2:45 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4 8:22 a.m. 4.0 2:45 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4 8:22 a.m. 4.0 2:45 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4 8:22 a.m. 4.0 2:45 p.m. 0.5 7:55 p.m. 11:11 a.m. 0.4	Wednesda	y Oct. 5	2:04 a.m.	2.7	8:15 a.m.	0.6	2:28 p.m.	3.1	9:01 p.m.	0.4		
Saturday Oct. 8	Thursday	Oct. 6	3:04 a.m.	2.8	9:18 a.m.	0.5	3:26 p.m.	3.0	9:52 p.m.	0.3		
Sunday         Oct. 9         5:41 a.m.         3.2         11:43 a.m.         0.2         5:57 p.m.         3.1         11:57 p.m.         0.1           Monday         Oct. 10         6:22 a.m.         3.3         12:26 a.m.         0.2         6:37 p.m.         3.2	Friday	Oct. 7	4:03 a.m.	2.9	10:11 a.m.	0.4	4:22 p.m.	3.0	10:37 p.m.	0.2		
Sunday         Oct. 9         5:41 a.m.         3.2         11:43 a.m.         0.2         5:57 p.m.         3.1         11:57 p.m.         0.1           Monday         Oct. 10         6:22 a.m.         3.3         12:26 a.m.         0.2         6:37 p.m.         3.2	Saturday	Oct. 8	4:56 a.m.	3.0	10:59 a.m.	0.4	5:12 p.m.	3.1	11:18 p.m.	0.2		
Monday         Oct. 10         6:22 a.m.         3.3         12:26 a.m.         0.2         6:37 p.m.         3.2  .	Sunrise: 6:56	am Sunset: 6:21	om									
Tuesday Oct. 11	Sunday	Oct. 9	5:41 a.m.	3.2	11:43 a.m.	0.2	5:57 p.m.	3.1	11:57 p.m.	0.1		
Wednesday Oct. 12       1:11 a.m.       0.1       7:33 a.m.       3.3       1:48 p.m.       0.2       7:53 p.m.         Thursday       Oct. 13       1:47 a.m.       0.2       8:06 a.m.       3.3       2:27 p.m.       0.2       8:30 p.m.         Friday       Oct. 14       2:22 a.m.       0.2       8:37 a.m.       3.3       3:05 p.m.       0.2       9:07 p.m.         Saturday       Oct. 15       2:56 a.m.       0.3       9:08 a.m.       3.2       3:41 p.m.       0.4       9:46 p.m.         Sunday       Oct. 16       3:29 a.m.       0.4       9:42 a.m.       3.1       4:18 p.m.       0.4       9:46 p.m.         Monday       Oct. 17       4:03 a.m.       0.5       10:23 a.m.       3.0       4:59 p.m.       0.5       11:20 p.m.         Tuesday       Oct. 18       4:43 a.m.       0.6       11:15 a.m.       3.0       5:49 p.m.       0.6       11:20 p.m.         Wednesday       Oct. 20       12:14 a.m.       2.5       5:36 a.m.       0.7       1:13 p.m.       3.0       6:56 p.m.       0.6       11:20 p.m.         Friday       Oct. 21       2:07 a.m.       2.7       8:12 a.m.       0.7       1:13 p.m.       3.0       8:04 p.m. <t< td=""><td>Monday</td><td>Oct. 10</td><td>6:22 a.m.</td><td>3.3</td><td>12:26 a.m.</td><td>0.2</td><td>6:37 p.m.</td><td>3.2</td><td></td><td></td><td></td><td></td></t<>	Monday	Oct. 10	6:22 a.m.	3.3	12:26 a.m.	0.2	6:37 p.m.	3.2				
Thursday Oct. 13	Tuesday	Oct. 11			12:35 a.m.	0.1	6:59 a.m.	3.3	1:08 p.m.	0.2	7:16 p.m.	3.1
Friday Oct. 14	Wednesda	y Oct. 12			1:11 a.m.	0.1	7:33 a.m.	3.3	1:48 p.m.	0.2	7:53 p.m.	3.0
Saturday       Oct. 15       2:56 a.m.       0.3       9:08 a.m.       3.2       3:41 p.m.       0.4       9:46 p.m.         Sunrise: 7:03 am Sunset: 6:10 pm         Sunday       Oct. 16       3:29 a.m.       0.4       9:42 a.m.       3.1       4:18 p.m.       0.4       10:30 p.m.         Monday       Oct. 17       4:03 a.m.       0.5       10:23 a.m.       3.0       4:59 p.m.       0.5       11:20 p.m.         Tuesday       Oct. 18       4:43 a.m.       0.6       11:15 a.m.       3.0       5:49 p.m.       0.6         Wednesday Oct. 19       12:14 a.m.       2.5       5:36 a.m.       0.7       12:13 p.m.       3.0       6:56 p.m.       0.6         Thursday       Oct. 20       1:09 a.m.       2.5       6:52 a.m.       0.7       1:13 p.m.       3.0       8:04 p.m.       0.5         Friday       Oct. 21       2:07 a.m.       2.7       8:12 a.m.       0.6       2:15 p.m.       3.0       9:03 p.m.       0.3         Saturday       Oct. 22       3:06 a.m.       2.9       9:19 a.m.       0.4       3:18 p.m.       3.2       10:44 p.m.       0.1         Sunday       Oct. 23       4:05 a.m.       3.2       10:17 a.m.       0.1	Thursday	Oct. 13			1:47 a.m.	0.2	8:06 a.m.	3.3	2:27 p.m.	0.2	8:30 p.m.	2.9
Sunday         Oct. 16         3:29 a.m.         0.4         9:42 a.m.         3.1         4:18 p.m.         0.4         10:30 p.m.           Monday         Oct. 17         4:03 a.m.         0.5         10:23 a.m.         3.0         4:59 p.m.         0.5         11:20 p.m.           Tuesday         Oct. 18         4:43 a.m.         0.6         11:15 a.m.         3.0         5:49 p.m.         0.6           Wednesday         Oct. 19         12:14 a.m.         2.5         5:36 a.m.         0.7         12:13 p.m.         3.0         6:56 p.m.         0.6           Thursday         Oct. 20         1:09 a.m.         2.5         6:52 a.m.         0.7         1:13 p.m.         3.0         8:04 p.m.         0.5           Friday         Oct. 21         2:07 a.m.         2.7         8:12 a.m.         0.6         2:15 p.m.         3.0         9:03 p.m.         0.5           Friday         Oct. 21         3:06 a.m.         2.9         9:19 a.m.         0.4         3:18 p.m.         3.2         9:03 p.m.         0.3           Saturday         Oct. 22         3:06 a.m.         2.9         9:19 a.m.         0.4         4:20 p.m.         3.2         10:44 p.m.         -0.1           Sunday	Friday	Oct. 14			2:22 a.m.	0.2	8:37 a.m.	3.3	3:05 p.m.	0.2	9:07 p.m.	2.8
Sunday         Oct. 16         3:29 a.m.         0.4         9:42 a.m.         3.1         4:18 p.m.         0.4         10:30 p.m.           Monday         Oct. 17         4:03 a.m.         0.5         10:23 a.m.         3.0         4:59 p.m.         0.5         11:20 p.m.           Tuesday         Oct. 18         4:43 a.m.         0.6         11:15 a.m.         3.0         5:49 p.m.         0.6           Wednesday         Oct. 19         12:14 a.m.         2.5         5:36 a.m.         0.7         12:13 p.m.         3.0         6:56 p.m.         0.6           Thursday         Oct. 20         1:09 a.m.         2.5         6:52 a.m.         0.7         1:13 p.m.         3.0         8:04 p.m.         0.5           Friday         Oct. 21         2:07 a.m.         2.7         8:12 a.m.         0.6         2:15 p.m.         3.0         9:03 p.m.         0.5           Friday         Oct. 21         3:06 a.m.         2.9         9:19 a.m.         0.4         3:18 p.m.         3.2         9:03 p.m.         0.3           Saturday         Oct. 22         3:06 a.m.         2.9         9:19 a.m.         0.4         4:20 p.m.         3.2         10:44 p.m.         -0.1           Sunday	Saturday	Oct. 15			2:56 a.m.	0.3	9:08 a.m.	3.2	3:41 p.m.	0.4	9:46 p.m.	2.7
Sunday         Oct. 16         3:29 a.m.         0.4         9:42 a.m.         3.1         4:18 p.m.         0.4         10:30 p.m.           Monday         Oct. 17         4:03 a.m.         0.5         10:23 a.m.         3.0         4:59 p.m.         0.5         11:20 p.m.           Tuesday         Oct. 18         4:43 a.m.         0.6         11:15 a.m.         3.0         5:49 p.m.         0.6           Wednesday         Oct. 19         12:14 a.m.         2.5         5:36 a.m.         0.7         12:13 p.m.         3.0         6:56 p.m.         0.6           Thursday         Oct. 20         1:09 a.m.         2.5         6:52 a.m.         0.7         1:13 p.m.         3.0         8:04 p.m.         0.5           Friday         Oct. 21         2:07 a.m.         2.7         8:12 a.m.         0.6         2:15 p.m.         3.0         9:03 p.m.         0.5           Saturday         Oct. 22         3:06 a.m.         2.9         9:19 a.m.         0.4         3:18 p.m.         3.2         9:55 p.m.         0.1           Sunday         Oct. 23         4:05 a.m.         3.2         10:17 a.m.         0.1         4:20 p.m.         3.2         10:44 p.m.         -0.1           Monday	,	am Sunset: 6:10	т									
Monday       Oct. 17       4:03 a.m.       0.5       10:23 a.m.       3.0       4:59 p.m.       0.5       11:20 p.m.         Tuesday       Oct. 18       4:43 a.m.       0.6       11:15 a.m.       3.0       5:49 p.m.       0.6         Wednesday Oct. 19       12:14 a.m.       2.5       5:36 a.m.       0.7       12:13 p.m.       3.0       6:56 p.m.       0.6         Thursday       Oct. 20       1:09 a.m.       2.5       6:52 a.m.       0.7       1:13 p.m.       3.0       8:04 p.m.       0.5         Friday       Oct. 21       2:07 a.m.       2.7       8:12 a.m.       0.6       2:15 p.m.       3.0       9:03 p.m.       0.3         Saturday       Oct. 22       3:06 a.m.       2.9       9:19 a.m.       0.4       3:18 p.m.       3.2       9:55 p.m.       0.1         Sunday       Oct. 23       4:05 a.m.       3.2       10:17 a.m.       0.1       4:20 p.m.       3.2       10:44 p.m.       -0.1         Sunday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Wednesday       Oct. 26       12:21 a.m.       -0.4       6:43 a.m.       4.0       1:					3:29 a.m.	0.4	9:42 a.m.	3.1	4:18 p.m.	0.4	10:30 p.m.	2.5
Wednesday Oct. 19       12:14 a.m.       2.5       5:36 a.m.       0.7       12:13 p.m.       3.0       6:56 p.m.       0.6         Thursday       Oct. 20       1:09 a.m.       2.5       6:52 a.m.       0.7       1:13 p.m.       3.0       8:04 p.m.       0.5         Friday       Oct. 21       2:07 a.m.       2.7       8:12 a.m.       0.6       2:15 p.m.       3.0       9:03 p.m.       0.3         Saturday       Oct. 22       3:06 a.m.       2.9       9:19 a.m.       0.4       3:18 p.m.       3.2       9:55 p.m.       0.1         Sunrise: 7:11 am Sunset: 6:00 pm         Sunday       Oct. 23       4:05 a.m.       3.2       10:17 a.m.       0.1       4:20 p.m.       3.2       10:44 p.m.       -0.1         Monday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Tuesday       Oct. 25       5:54 a.m.       3.8       12:06 p.m.       -0.3       6:13 p.m.       3.5       11:00 p.m.       -0.4       7:04 p.m.         Friday       Oct. 27       1:11 a.m.       -0.4       6:43 a.m.       4.0       1:53 p.m.       -0.5       7:55 p.m.         Friday	_	Oct. 17			4:03 a.m.	0.5	10:23 a.m.	3.0	4:59 p.m.	0.5	11:20 p.m.	2.5
Wednesday Oct. 19       12:14 a.m.       2.5       5:36 a.m.       0.7       12:13 p.m.       3.0       6:56 p.m.       0.6         Thursday       Oct. 20       1:09 a.m.       2.5       6:52 a.m.       0.7       1:13 p.m.       3.0       8:04 p.m.       0.5         Friday       Oct. 21       2:07 a.m.       2.7       8:12 a.m.       0.6       2:15 p.m.       3.0       9:03 p.m.       0.3         Saturday       Oct. 22       3:06 a.m.       2.9       9:19 a.m.       0.4       3:18 p.m.       3.2       9:55 p.m.       0.1         Sunday       Oct. 23       4:05 a.m.       3.2       10:17 a.m.       0.1       4:20 p.m.       3.2       10:44 p.m.       -0.1         Monday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Tuesday       Oct. 25       5:54 a.m.       3.8       12:06 p.m.       -0.3       6:13 p.m.       3.5       11:00 p.m.       -0.4       7:04 p.m.         Friday       Oct. 27       1:11 a.m.       -0.4       6:43 a.m.       4.0       1:53 p.m.       -0.5       7:55 p.m.         Friday       Oct. 28       2:01 a.m. <t< td=""><td>Tuesday</td><td>Oct. 18</td><td></td><td></td><td>4:43 a.m.</td><td>0.6</td><td>11:15 a.m.</td><td>3.0</td><td>5:49 p.m.</td><td>0.6</td><td></td><td></td></t<>	Tuesday	Oct. 18			4:43 a.m.	0.6	11:15 a.m.	3.0	5:49 p.m.	0.6		
Friday       Oct. 21       2:07 a.m.       2.7       8:12 a.m.       0.6       2:15 p.m.       3.0       9:03 p.m.       0.3         Saturday       Oct. 22       3:06 a.m.       2.9       9:19 a.m.       0.4       3:18 p.m.       3.2       9:55 p.m.       0.1         Sunday       Oct. 23       4:05 a.m.       3.2       10:17 a.m.       0.1       4:20 p.m.       3.2       10:44 p.m.       -0.1         Monday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Tuesday       Oct. 25       5:54 a.m.       3.8       12:06 p.m.       -0.3       6:13 p.m.       3.5         Wednesday       Oct. 26       12:21 a.m.       -0.4       6:43 a.m.       4.0       1:00 p.m.       -0.4       7:04 p.m.         Thursday       Oct. 27       1:11 a.m.       -0.4       7:32 a.m.       4.1       1:53 p.m.       -0.5       7:55 p.m.         Friday       Oct. 28       2:01 a.m.       -0.4       8:22 a.m.       4.0       2:45 p.m.       -0.5       8:48 p.m.         Saturday       Oct. 29       2:51 a.m.       -0.3       9:14 a.m.       3.9       3:36 p.m.       -0.4	Wednesda	y Oct. 19	12:14 a.m.	2.5	5:36 a.m.	0.7	12:13 p.m.	3.0	6:56 p.m.	0.6		
Saturday       Oct. 22       3:06 a.m.       2.9       9:19 a.m.       0.4       3:18 p.m.       3.2       9:55 p.m.       0.1         Sunday       Oct. 23       4:05 a.m.       3.2       10:17 a.m.       0.1       4:20 p.m.       3.2       10:44 p.m.       -0.1         Monday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Tuesday       Oct. 25       5:54 a.m.       3.8       12:06 p.m.       -0.3       6:13 p.m.       3.5         Wednesday Oct. 26       12:21 a.m.       -0.4       6:43 a.m.       4.0       1:00 p.m.       -0.4       7:04 p.m.         Thursday       Oct. 27       1:11 a.m.       -0.4       7:32 a.m.       4.1       1:53 p.m.       -0.5       7:55 p.m.         Friday       Oct. 28       2:01 a.m.       -0.4       8:22 a.m.       4.0       2:45 p.m.       -0.5       8:48 p.m.         Saturday       Oct. 29       2:51 a.m.       -0.3       9:14 a.m.       3.9       3:36 p.m.       -0.4       9:44 p.m.         Sunrise: 7:19 am       Sunset: 5:50 pm         Sunday       Oct. 30       3:42 a.m.       -0.1       10:10 a.m.       3.7<	Thursday	Oct. 20	1:09 a.m.	2.5	6:52 a.m.	0.7	1:13 p.m.	3.0	8:04 p.m.	0.5		
Saturday       Oct. 22       3:06 a.m.       2.9       9:19 a.m.       0.4       3:18 p.m.       3.2       9:55 p.m.       0.1         Sunday       Oct. 23       4:05 a.m.       3.2       10:17 a.m.       0.1       4:20 p.m.       3.2       10:44 p.m.       -0.1         Monday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Tuesday       Oct. 25       5:54 a.m.       3.8       12:06 p.m.       -0.3       6:13 p.m.       3.5         Wednesday Oct. 26       12:21 a.m.       -0.4       6:43 a.m.       4.0       1:00 p.m.       -0.4       7:04 p.m.         Thursday       Oct. 27       1:11 a.m.       -0.4       7:32 a.m.       4.1       1:53 p.m.       -0.5       7:55 p.m.         Friday       Oct. 28       2:01 a.m.       -0.4       8:22 a.m.       4.0       2:45 p.m.       -0.5       8:48 p.m.         Saturday       Oct. 29       2:51 a.m.       -0.3       9:14 a.m.       3.9       3:36 p.m.       -0.4       9:44 p.m.         Sunrise: 7:19 am       Sunset: 5:50 pm         Sunday       Oct. 30       3:42 a.m.       -0.1       10:10 a.m.       3.7<	Friday	Oct. 21	2:07 a.m.	2.7	8:12 a.m.	0.6	2:15 p.m.	3.0	9:03 p.m.	0.3		
Sunday         Oct. 23         4:05 a.m.         3.2         10:17 a.m.         0.1         4:20 p.m.         3.2         10:44 p.m.         -0.1           Monday         Oct. 24         5:01 a.m.         3.5         11:12 a.m.         -0.1         5:19 p.m.         3.3         11:32 p.m.         -0.3           Tuesday         Oct. 25         5:54 a.m.         3.8         12:06 p.m.         -0.3         6:13 p.m.         3.5           Wednesday         Oct. 26         12:21 a.m.         -0.4         6:43 a.m.         4.0         1:00 p.m.         -0.4         7:04 p.m.           Thursday         Oct. 27         1:11 a.m.         -0.4         7:32 a.m.         4.1         1:53 p.m.         -0.5         7:55 p.m.           Friday         Oct. 28         2:01 a.m.         -0.4         8:22 a.m.         4.0         2:45 p.m.         -0.5         8:48 p.m.           Saturday         Oct. 29         2:51 a.m.         -0.3         9:14 a.m.         3.9         3:36 p.m.         -0.4         9:44 p.m.           Sunrise: 7:19 am         Sunset: 5:50 pm           Sunday         Oct. 30         3:42 a.m.         -0.1         10:10 a.m.         3.7         4:28 p.m.         -0.2         10:44 p.m.  <		Oct. 22	3:06 a.m.	2.9	9:19 a.m.	0.4	-	3.2	-	0.1		
Monday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Tuesday       Oct. 25       5:54 a.m.       3.8       12:06 p.m.       -0.3       6:13 p.m.       3.5         Wednesday Oct. 26       12:21 a.m.       -0.4       6:43 a.m.       4.0       1:00 p.m.       -0.4       7:04 p.m.         Thursday       Oct. 27       1:11 a.m.       -0.4       7:32 a.m.       4.1       1:53 p.m.       -0.5       7:55 p.m.         Friday       Oct. 28       2:01 a.m.       -0.4       8:22 a.m.       4.0       2:45 p.m.       -0.5       8:48 p.m.         Saturday       Oct. 29       2:51 a.m.       -0.3       9:14 a.m.       3.9       3:36 p.m.       -0.4       9:44 p.m.         Sunrise: 7:19 am Sunset: 5:50 pm         Sunday       Oct. 30       3:42 a.m.       -0.1       10:10 a.m.       3.7       4:28 p.m.       -0.2       10:44 p.m.		am Sunset: 6:00	т								ı	
Monday       Oct. 24       5:01 a.m.       3.5       11:12 a.m.       -0.1       5:19 p.m.       3.3       11:32 p.m.       -0.3         Tuesday       Oct. 25       5:54 a.m.       3.8       12:06 p.m.       -0.3       6:13 p.m.       3.5         Wednesday Oct. 26       12:21 a.m.       -0.4       6:43 a.m.       4.0       1:00 p.m.       -0.4       7:04 p.m.         Thursday       Oct. 27       1:11 a.m.       -0.4       7:32 a.m.       4.1       1:53 p.m.       -0.5       7:55 p.m.         Friday       Oct. 28       2:01 a.m.       -0.4       8:22 a.m.       4.0       2:45 p.m.       -0.5       8:48 p.m.         Saturday       Oct. 29       2:51 a.m.       -0.3       9:14 a.m.       3.9       3:36 p.m.       -0.4       9:44 p.m.         Sunrise: 7:19 am Sunset: 5:50 pm         Sunday       Oct. 30       3:42 a.m.       -0.1       10:10 a.m.       3.7       4:28 p.m.       -0.2       10:44 p.m.	Sunday	Oct. 23	4:05 a.m.	3.2	10:17 a.m.	0.1	4:20 p.m.	3.2	10:44 p.m.	-0.1		
Tuesday Oct. 25 5:54 a.m. 3.8 12:06 p.m0.3 6:13 p.m. 3.5 Wednesday Oct. 26 12:21 a.m0.4 6:43 a.m. 4.0 1:00 p.m0.4 7:04 p.m. Thursday Oct. 27 1:11 a.m0.4 7:32 a.m. 4.1 1:53 p.m0.5 7:55 p.m. Friday Oct. 28 2:01 a.m0.4 8:22 a.m. 4.0 2:45 p.m0.5 8:48 p.m. Saturday Oct. 29 2:51 a.m0.3 9:14 a.m. 3.9 3:36 p.m0.4 9:44 p.m. Sunrise: 7:19 am Sunset: 5:50 pm  Sunday Oct. 30 3:42 a.m0.1 10:10 a.m. 3.7 4:28 p.m0.2 10:44 p.m.	_	Oct. 24	5:01 a.m.	3.5	11:12 a.m.	-0.1	-	3.3	-			
Wednesday Oct. 26       12:21 a.m0.4 6:43 a.m. 4.0 1:00 p.m0.4 7:04 p.m.         Thursday Oct. 27       1:11 a.m0.4 7:32 a.m. 4.1 1:53 p.m0.5 7:55 p.m.         Friday Oct. 28       2:01 a.m0.4 8:22 a.m. 4.0 2:45 p.m0.5 8:48 p.m.         Saturday Oct. 29       2:51 a.m0.3 9:14 a.m. 3.9 3:36 p.m0.4 9:44 p.m.         Sunrise: 7:19 am Sunset: 5:50 pm         Sunday Oct. 30       3:42 a.m0.1 10:10 a.m. 3.7 4:28 p.m0.2 10:44 p.m.	_		5:54 a.m.	3.8			·					
Thursday       Oct. 27       1:11 a.m0.4       7:32 a.m. 4.1       1:53 p.m0.5       7:55 p.m.         Friday       Oct. 28       2:01 a.m0.4       8:22 a.m. 4.0       2:45 p.m0.5       8:48 p.m.         Saturday       Oct. 29       2:51 a.m0.3       9:14 a.m. 3.9       3:36 p.m0.4       9:44 p.m.         Sunrise: 7:19 am Sunset: 5:50 pm         Sunday       Oct. 30       3:42 a.m0.1       10:10 a.m. 3.7       4:28 p.m0.2       10:44 p.m.	,	_			·		·		1:00 p.m.	-0.4	7:04 p.m.	3.5
Friday       Oct. 28       2:01 a.m.       -0.4       8:22 a.m.       4.0       2:45 p.m.       -0.5       8:48 p.m.         Saturday       Oct. 29       2:51 a.m.       -0.3       9:14 a.m.       3.9       3:36 p.m.       -0.4       9:44 p.m.         Sunrise: 7:19 am Sunset: 5:50 pm         Sunday       Oct. 30       3:42 a.m.       -0.1       10:10 a.m.       3.7       4:28 p.m.       -0.2       10:44 p.m.												3.4
Saturday       Oct. 29       2:51 a.m.       -0.3       9:14 a.m.       3.9       3:36 p.m.       -0.4       9:44 p.m.         Sunrise: 7:19 am Sunset: 5:50 pm         Sunday       Oct. 30       3:42 a.m.       -0.1       10:10 a.m.       3.7       4:28 p.m.       -0.2       10:44 p.m.	,								-			3.3
Sunday       Oct. 30       3:42 a.m.       -0.1       10:10 a.m.       3.7       4:28 p.m.       -0.2       10:44 p.m.									-			3.1
Sunday Oct. 30 3:42 a.m.   -0.1   10:10 a.m.   3.7   4:28 p.m.   -0.2   10:44 p.m.			om		4		2				1 12	
					3:42 a.m.	-0.1	10:10 a.m.	3.7	4:28 p.m.	-0.2	10:44 p.m.	3.0
	Monday	Oct. 31			4:34 a.m.	0.1	11:08 a.m.	3.5	5:22 p.m.	0.1	-	

		ı	10	vemb	er	2011					
		High		Low		High		Low		High	
Date		time	feet								
Tuesday	Nov. 1			5:31 a.m.	0.3	12:06 p.m.	3.2	6:22 p.m.	0.2		
Wednesday	/ Nov. 2	12:43 a.m.	2.8	6:37 a.m.	0.5	1:02 p.m.	3.1	7:25 p.m.	0.3		
Thursday	Nov. 3	1:40 a.m.	2.7	7:47 a.m.	0.6	1:57 p.m.	2.9	8:24 p.m.	0.3		
Friday	Nov. 4	2:35 a.m.	2.7	8:50 a.m.	0.6	2:51 p.m.	2.8	9:16 p.m.	0.3		
Saturday	Nov. 5	3:30 a.m.	2.8	9:45 a.m.	0.5	3:45 p.m.	2.8	10:00 p.m.	0.2		
	am Sunset: 4:42 p	m									
Sunday *	Nov. 6	3:21 a.m.	2.9	9:32 a.m.	0.4	3:37 p.m.	2.8	9:41 p.m.	0.2		
Monday	Nov. 7	4:08 a.m.	3.1	10:17 a.m.	0.3	4:25 p.m.	2.8	10:20 p.m.	0.1		
Tuesday	Nov. 8	4:50 a.m.	3.2	11:00 a.m.	0.2	5:08 p.m.	2.8	10:58 p.m.	0.1		
Wednesday	/ Nov. 9	5:28 a.m.	3.3	11:42 a.m.	0.1	5:49 p.m.	2.8	11:37 p.m.	0.1		
Thursday	Nov. 10	6:03 a.m.	3.3	12:24 p.m.	0.1	6:28 p.m.	2.8				
Friday	Nov. 11			12:16 a.m.	0.1	6:37 a.m.	3.3	1:04 p.m.	0.1	7:06 p.m.	2.7
Saturday	Nov. 12			12:55 a.m.	0.2	7:09 a.m.	3.3	1:44 p.m.	0.1	7:44 p.m.	2.7
	am Sunset: 4:35 p	m									
Sunday	Nov. 13			1:32 a.m.	0.2	7:42 a.m.	3.2	2:22 p.m.	0.2	8:23 p.m.	2.6
Monday	Nov. 14			2:09 a.m.	0.3	8:18 a.m.	3.1	3:00 p.m.	0.2	9:07 p.m.	2.5
Tuesday	Nov. 15			2:47 a.m.	0.3	9:00 a.m.	3.1	3:39 p.m.	0.3	9:57 p.m.	2.5
Wednesday	/ Nov. 16			3:29 a.m.	0.4	9:52 a.m.	3.0	4:25 p.m.	0.3	10:51 p.m.	2.5
Thursday	Nov. 17			4:20 a.m.	0.5	10:49 a.m.	3.0	5:20 p.m.	0.3	11:45 p.m.	2.6
Friday	Nov. 18			5:29 a.m.	0.5	11:48 a.m.	2.9	6:24 p.m.	0.3		
Saturday	Nov. 19	12:41 a.m.	2.8	6:47 a.m.	0.4	12:47 p.m.	2.9	7:26 p.m.	0.1		
	am Sunset: 4:30 p										
Sunday	Nov. 20	1:38 a.m.	3.0	7:57 a.m.	0.3	1:49 p.m.	2.9	8:22 p.m.	0.0		
Monday	Nov. 21	2:37 a.m.	3.2	8:58 a.m.	0.0	2:53 p.m.	3.0	9:14 p.m.	-0.2		
Tuesday	Nov. 22	3:36 a.m.	3.5	9:55 a.m.	-0.2	3:56 p.m.	3.1	10:06 p.m.	-0.3		
Wednesday		4:31 a.m.	3.7	10:50 a.m.	-0.4	4:54 p.m.	3.1	10:58 p.m.	-0.4		
Thursday	Nov. 24	5:24 a.m.	3.9	11:44 a.m.	-0.5	5:48 p.m.	3.2	11:50 p.m.	-0.4		
Friday	Nov. 25	6:14 a.m.	3.9	12:37 p.m.	-0.5	6:40 p.m.	3.2				
Saturday	Nov. 26			12:43 a.m.	-0.4	7:04 a.m.	3.9	1:29 p.m.	-0.5	7:32 p.m.	3.1
	am Sunset: 4:26 p	om 									
Sunday	Nov. 27			1:34 a.m.	-0.3	7:55 a.m.	3.7	2:18 p.m.	-0.4	•	3.0
Monday	Nov. 28			2:24 a.m.	-0.2	8:49 a.m.	3.5	3:07 p.m.	-0.3	9:24 p.m.	2.9
Tuesday	Nov. 29			3:14 a.m.	0.0	9:43 a.m.	3.3	3:56 p.m.	-0.1	10:20 p.m.	2.8
Wednesday	/ Nov. 30			4:06 a.m.	0.2	10:37 a.m.	3.1	4:46 p.m.	0.0	11:15 p.m.	2.7

<sup>\*</sup> Daylight Saving Time ends

			)e	cemb	er	2011					
		High		Low		High		Low		High	
Date		time	feet	time	feet	time	feet	time	feet	time	feet
Thursday	Dec. 1			5:03 a.m.	0.4	11:30 a.m.	2.9	5:40 p.m.	0.2		
Friday	Dec. 2	12:08 a.m.	2.7	6:08 a.m.	0.5	12:20 p.m.	2.7	6:36 p.m.	0.3		
Saturday	Dec. 3	12:58 a.m.	2.7	7:12 a.m.	0.6	1:11 p.m.	2.6	7:29 p.m.	0.3		
Sunrise: 6:59	am Sunset: 4:24 p	om									
Sunday	Dec. 4	1:48 a.m.	2.7	8:10 a.m.	0.5	2:03 p.m.	2.5	8:16 p.m.	0.3		
Monday	Dec. 5	2:39 a.m.	2.8	9:01 a.m.	0.4	2:57 p.m.	2.5	9:00 p.m.	0.2		
Tuesday	Dec. 6	3:28 a.m.	2.9	9:47 a.m.	0.3	3:50 p.m.	2.5	9:42 p.m.	0.2		
Wednesday	Dec. 7	4:15 a.m.	3.0	10:32 a.m.	0.2	4:39 p.m.	2.5	10:25 p.m.	0.1		
Thursday	Dec. 8	4:57 a.m.	3.1	11:16 a.m.	0.1	5:23 p.m.	2.6	11:07 p.m.	0.1		
Friday	Dec. 9	5:36 a.m.	3.2	12:00 p.m.	0.0	6:05 p.m.	2.6	11:50 p.m.	0.1		
Saturday	Dec. 10	6:13 a.m.	3.2	12:42 p.m.	0.0	6:44 p.m.	2.6				
Sunrise: 7:05	am Sunset: 4:24	om									
Sunday	Dec. 11			12:32 a.m.	0.0	6:48 a.m.	3.2	1:23 p.m.	-0.1	7:23 p.m.	2.6
Monday	Dec. 12			1:13 a.m.	0.0	7:24 a.m.	3.2	2:02 p.m.	-0.1	8:03 p.m.	2.6
Tuesday	Dec. 13			1:54 a.m.	0.1	8:02 a.m.	3.2	2:41 p.m.	-0.1	8:47 p.m.	2.6
Wednesday	Dec. 14			2:35 a.m.	0.1	8:45 a.m.	3.1	3:20 p.m.	-0.1	9:36 p.m.	2.6
Thursday	Dec. 15			3:18 a.m.	0.1	9:35 a.m.	3.0	4:01 p.m.	0.0	10:28 p.m.	2.7
Friday	Dec. 16			4:08 a.m.	0.2	10:29 a.m.	3.0	4:49 p.m.	0.0	11:21 p.m.	2.8
Saturday	Dec. 17			5:10 a.m.	0.3	11:26 a.m.	2.9	5:47 p.m.	0.0		
Sunrise: 7:10	am Sunset: 4:26										
Sunday	Dec. 18	12:15 a.m.	2.9	6:24 a.m.	0.3	12:24 p.m.	2.8	6:50 p.m.	0.0		
Monday	Dec. 19	1:12 a.m.	3.0	7:36 a.m.	0.2	1:26 p.m.	2.7	7:52 p.m.	-0.1		
Tuesday	Dec. 20	2:12 a.m.	3.2	8:41 a.m.	0.0	2:31 p.m.	2.7	8:50 p.m.	-0.2		
Wednesday	Dec. 21	3:13 a.m.	3.4	9:39 a.m.	-0.2	3:37 p.m.	2.7	9:46 p.m.	-0.3		
Thursday	Dec. 22	4:13 a.m.	3.5	10:35 a.m.	-0.3	4:39 p.m.	2.8	10:40 p.m.	-0.4		
Friday	Dec. 23	5:08 a.m.	3.6	11:30 a.m.	-0.5	5:35 p.m.	2.9	11:35 p.m.	-0.4		
Saturday	Dec. 24	6:00 a.m.	3.7	12:22 p.m.	-0.5	6:27 p.m.	3.0				
Sunrise: 7:14	am Sunset: 4:29	om									
Sunday	Dec. 25			12:27 a.m.	-0.4	6:49 a.m.	3.7	1:12 p.m.	-0.5	7:17 p.m.	3.0
Monday	Dec. 26			1:18 a.m.	-0.4.	7:38 a.m.	3.6	1:58 p.m.	-0.5	8:08 p.m.	2.9
Tuesday	Dec. 27			2:06 a.m.	-0.3	8:26 a.m.	3.4	2:43 p.m.	-0.4	8:59 p.m.	2.8
Wednesday	Dec. 28			2:52 a.m.	-0.1	9:15 a.m.	3.2	3:25 p.m.	-0.3	9:50 p.m.	2.8
Thursday	Dec. 29			3:38 a.m.	0.1	10:04 a.m.	3.0	4:07 p.m.	-0.1	10:40 p.m.	2.7
Friday	Dec. 30			4:26 a.m.	0.3	10:53 a.m.	2.7	4:50 p.m.	0.1	11:28 p.m.	2.6
Saturday	Dec. 31			5:21 a.m.	0.4	11:40 a.m.	2.6	5:38 p.m.	0.2		

Fire Island National Seashore has been monitoring the status of the following species that depend on coastal habitats since 1986:



Seabeach Amaranth Federally threatened



**Seabeach Knotweed** NY State listed rare



**Piping Plover**Federally threatened,
NY State endangered

Other T&E protection measures include population counts for waterbird species such as least tern, common tern, roseate tern, and black skimmer.

2011 Tide Tables

# Threatened and Endangered Species Protection Measures on Fire Island

The National Park Service's requirement to protect endangered and threatened species and their habitats has seasonal impacts on driving, beach users and the communities within park boundaries.

## **Spring**

In early spring, piping plovers begin to arrive on Fire Island. By April, suitable piping plover habitat is marked and protected with symbolic fencing. Piping plovers are monitored daily beginning in early spring, while breeding and nesting take place from April through June. Nest monitoring occurs once a full nest clutch of 4 eggs is observed As nests are established, NPS staff construct predator exclosures around the nest to protect both nest and eggs.



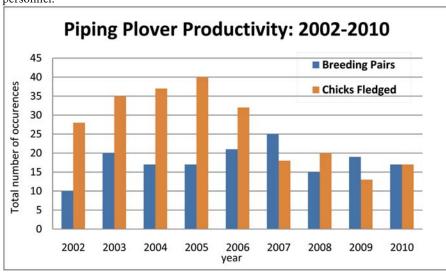
Plover nesting area at Fire Island Lighthouse beach.

#### Summer

Piping plover nests begin to hatch in early summer once eggs have reached the 27 day incubation period. In accordance with recovery effort guidelines, off-road vehicle restrictions are implemented once this occurs to ensure the safety of the newborn chicks. This typically lasts until the end of the piping plover season. The piping plover season culminates in August. This is the period when most chicks have reached 25 days of age, have begun to fly and are considered fledged.

### Fall

Symbolic fencing remains in place through the fall to protect threatened and endangered vegetative species. Seabeach amaranth and seabeach knotweed, two protected species, occur along the shoreline of Fire Island and are inventoried by resource management personnel.



# Fire Island Driving Distances (in miles)

Robert   Moses State   2.3   3.2   3.5   4.3   4.9   5.4   5.8   6.2   6.7   7.1   8.0   8.5   9.4   10.5   11.9   12.7   14.2   15.1   15.9   18.8   20.5   22.2   28.3																									
Stand   Stan		Robert Moses State Park Bridge	Fire Island Lighthouse	Kismet	Saltaire	Fair Harbor	Atlantique	Robbins Rest	Ocean Beach	Seaview	Ocean Bay Park	Point O'Woods	Sunken Forest	Sailors Haven	Cherry Grove	Fire Island Pines	Barrett Beach/Talisman	Water Island	Davis Park	Watch Hill	Long Cove	Bellport Beach	Old Inlet	Wilderness VC	Moriches Inlet
Moses State   23   3.2   3.5   4.3   4.9   5.4   5.8   6.2   6.7   7.1   8.0   8.5   9.4   10.5   11.9   12.7   14.2   15.1   15.9   18.8   20.5   22.2   28.3	Fire Island Inlet	2.4	4.7	5.6	5.9	6.7	7.3	7.8	8.2	8.6	9.1	9.5	10.4	10.9	11.8	12.9	14.3	15.1	16.6	17.5	18.3	21.2	22.9	24.6	30.7
Lighthouse	Moses State		2.3	3.2	3.5	4.3	4.9	5.4	5.8	6.2	6.7	7.1	8.0	8.5	9.4	10.5	11.9	12.7	14.2	15.1	15.9	18.8	20.5	22.2	28.3
Saltaire 0.8 1.4 1.9 2.3 2.7 3.2 3.6 4.5 5.0 5.9 7.0 8.4 9.2 10.7 11.6 12.4 15.3 17.0 18.7 24.8 Fair Harbor 1.0 1.1 1.5 1.9 2.4 2.8 3.7 4.2 5.1 6.2 7.6 8.4 9.9 10.8 11.6 12.5 12.5 12.4 24.8 Atlantique 1.0 1.5 1.9 2.4 2.8 3.7 4.2 5.1 6.2 7.6 8.4 9.9 10.8 11.6 14.5 16.2 17.9 24.0 Atlantique 1.0 1.5 1.5 1.5 1.5 1.8 2.2 3.1 3.6 4.5 5.6 7.0 7.8 9.3 10.2 11.0 13.9 15.6 17.3 23.4 Robbins Rest 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1			0.9	1.2	2.0	2.6	3.1	3.5	3.9	4.4	4.8	5.7	6.2	7.1	8.2	9.6	10.4	11.9	12.8	13.6	16.5	18.2	19.9	26.0
Fair Harbor 0.6 1.1 1.5 1.9 2.4 2.8 3.7 4.2 5.1 6.2 7.6 8.4 9.9 10.8 11.6 14.5 16.2 17.9 24.0 Atlantique 0.5 0.5 0.9 1.3 1.8 2.2 3.1 3.6 4.5 5.6 7.0 7.8 9.3 10.2 11.0 13.9 15.6 17.3 23.4 Robbins Rest 0.4 0.8 1.3 1.7 2.6 3.1 4.0 5.1 6.5 7.3 8.8 9.7 10.5 13.4 15.1 16.8 22.9 Ocean Beach 0.5 0.5 0.9 1.3 1.2 1.7 2.6 3.1 4.0 5.1 6.5 7.3 8.8 9.7 10.5 13.4 15.1 16.8 22.9 Ocean Bay Park 0.5 0.9 1.8 0.9 1.8 1.8 2.7 3.8 2.7 3.8 5.6 7.0 8.4 9.3 10.1 13.0 14.7 16.4 22.5 Seaview 0.5 0.9 1.8 1.8 2.7 3.8 2.7 3.8 5.6 7.1 8.0 8.8 11.7 13.4 15.5 15.5 15.6 Seaview 0.5 0.9 1.8 1.8 1.8 1.7 13.4 15.1 16.8 12.9 Ocean Bay Park 0.5 0.9 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	Kisme	et			0.3	1.1	1.7	2.2	2.6	3.0	3.5	3.9	4.8	5.3	6.2	7.3	8.7	9.5	11.0	11.9	12.7	15.6	17.3	19.0	25.1
Atlantique 0.5 0.9 1.3 1.8 2.2 3.1 3.6 4.5 5.6 7.0 7.8 9.3 10.2 11.0 13.9 15.6 17.3 23.4 Robbins Rest 0.4 0.8 1.3 1.7 2.6 3.1 4.0 5.1 6.5 7.3 8.8 9.7 10.5 13.4 15.1 16.8 22.9 Ocean Beach 0.5 0.9 1.8 2.3 2.2 2.7 3.6 4.7 6.1 6.5 7.8 8.0 8.9 9.7 10.5 13.0 14.7 16.4 22.5 Seaview 0.4 1.3 1.8 2.3 3.2 1.8 2.3 3.2 1.8 5.7 6.5 8.0 8.9 9.7 10.5 13.0 14.7 16.4 22.5 Seaview 0.4 1.3 1.8 2.7 3.8 5.2 6.0 7.5 8.4 9.3 10.1 13.0 14.7 16.4 22.5 Seaview 0.4 1.3 1.8 2.7 3.8 5.2 6.0 7.5 8.4 9.3 10.1 13.0 14.7 16.4 22.5 Seaview 0.5 1.4 2.3 3.4 4.8 5.6 7.1 8.0 8.8 11.7 13.4 15.1 21.2 Sunken Forest 0.5 1.4 2.5 3.9 4.7 6.2 7.1 7.9 10.8 12.5 13.6 14.2 2.3 Sailors Haven 0.5 1.4 2.5 3.9 4.7 6.2 7.1 7.9 10.8 12.5 13.6 14.2 13.8 Sailors Haven 0.5 1.4 2.5 13.4 13.8 13.8 13.8 13.8 13.8 13.8 13.8 13.8	Saltaire 0.8					1.4	1.9	2.3	2.7	3.2	3.6	4.5	5.0	5.9	7.0	8.4	9.2	10.7	11.6	12.4	15.3	17.0	18.7	24.8	
Robbins Rest 0.4 0.8 1.3 1.7 2.6 3.1 4.0 5.1 6.5 7.3 8.8 9.7 10.5 13.4 15.1 16.8 22.9 Coean Beach 0.4 0.9 1.3 2.2 2.7 3.6 4.7 6.1 6.9 8.4 9.3 10.1 13.0 14.7 16.4 22.5 Seaview 0.5 0.9 1.8 2.3 3.2 4.3 5.7 6.5 8.0 8.9 9.7 12.6 14.3 16.0 22.1 Coean Bay Park 0.5 0.9 1.8 2.3 3.2 4.3 5.7 6.5 8.0 8.9 9.7 12.6 14.3 16.0 22.1 Coean Bay Park 0.5 0.9 1.8 2.3 3.2 8.3 8.2 6.0 7.5 8.4 9.2 12.1 13.8 15.5 21.6 Point O'Woods 0.5 0.5 0.9 1.8 2.3 1.8 2.7 8.8 5.2 6.0 7.5 8.4 9.2 12.1 13.8 15.5 21.6 Point O'Woods 0.5 0.5 0.9 1.8 2.3 1.8 2.7 8.8 5.2 6.0 7.5 8.4 9.2 12.1 13.8 15.5 21.6 Point O'Woods 0.5 0.5 0.5 0.9 1.4 2.3 1.4 2.5	Fair Harbor 0.6						1.1	1.5	1.9	2.4	2.8	3.7	4.2	5.1	6.2	7.6	8.4	9.9	10.8	11.6	14.5	16.2	17.9	24.0	
Ocean Beach Ocean Beach Ocean Beach Ocean Beach Ocean Bay Park Oce	Atlantique							0.5	0.9	1.3	1.8	2.2	3.1	3.6	4.5	5.6	7.0	7.8	9.3	10.2	11.0	13.9	15.6	17.3	23.4
Seaview 0.5 0.9 1.8 2.3 3.2 4.3 5.7 6.5 8.0 8.9 9.7 12.6 14.3 16.0 22.1 Ocean Bay Park 0.4 1.3 1.8 2.7 3.8 5.2 6.0 7.5 8.4 9.2 12.1 13.8 15.5 21.6 Point O'Woods 0.9 1.4 2.3 3.4 4.8 5.6 7.1 8.0 8.8 11.7 13.4 15.1 21.2 Sunken Forest 0.5 1.4 2.5 3.9 4.7 6.2 7.1 7.9 10.8 12.5 14.2 20.3 Sailors Haven 0.5 1.4 2.5 3.9 4.7 6.2 7.1 7.9 10.8 12.5 14.2 20.3 Sailors Haven 0.5 1.4 2.5 3.3 4.8 5.7 6.6 7.4 10.3 12.0 13.7 19.8 Cherry Grove 1.1 2.5 3.3 4.8 5.7 6.5 9.4 11.1 12.8 18.9 Fire Island Pines 1.4 2.2 3.7 4.6 5.4 8.3 10.0 11.7 17.8 Barrett Beach/Talisman 0.5 1.4 2.5 1.4 2.2 3.7 4.6 5.4 8.3 10.0 11.7 17.8 Water Island 0.5 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Robbins Rest 0.4 0.8 1.3 1.7 2.6 3.1 4.0 5.1 6.5 7.3 8.8 9.7 10.												10.5	13.4	15.1	16.8	22.9								
Ocean Bay Park  Ocean Bay Park	Ocean Beach 0.4 0.9 1.3 2.2 2.7 3.6 4.7 6.1 6.9 8.4 9.3 10.1 13													13.0	14.7	16.4	22.5								
Point O'Woods 0.9 1.4 2.3 3.4 4.8 5.6 7.1 8.0 8.8 11.7 13.4 15.1 21.2 Sunken Forest 0.5 1.4 2.5 3.9 4.7 6.2 7.1 7.9 10.8 12.5 14.2 20.3 Sailors Haven 0.9 2.0 3.4 4.2 5.7 6.6 7.4 10.3 12.0 13.7 19.8 Cherry Grove 1.1 2.5 3.3 4.8 5.7 6.5 9.4 11.1 12.8 18.9 Fire Island Pines 1.4 2.2 3.7 4.6 5.4 8.3 10.0 11.7 17.8 Barrett Beach/Talisman 0.8 2.3 3.2 4.0 6.9 8.6 10.3 16.4 Water Island 0.8 2.3 3.2 4.0 6.9 8.6 10.3 16.4 Water Island 0.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Seaview 0.5 0.9 1.8 2.3 3.2 4.3 5.7 6.5 8.0 8.9 9.7 12.6															14.3	16.0	22.1							
Sunken Forest 0.5 1.4 2.5 3.9 4.7 6.2 7.1 7.9 10.8 12.5 14.2 20.3 Sailors Haven 0.9 2.0 3.4 4.2 5.7 6.6 7.4 10.3 12.0 13.7 19.8 Cherry Grove 1.1 2.5 3.3 4.8 5.7 6.5 9.4 11.1 12.8 18.9 Fire Island Pines 1.4 2.2 3.7 4.6 5.4 8.3 10.0 11.7 17.8 Barrett Beach/Talisman 0.8 2.3 3.2 4.0 6.9 8.6 10.3 16.4 Water Island 0.9 Davis Park 0.9 1.7 4.6 6.3 8.0 14.1 Watch Hill 0.8 3.7 5.4 7.1 13.2 Long Cove 0.9 1.7 4.6 6.3 12.4 Bellport Beach 0.9 Island 0.9 Sailor	Ocean Bay Park 0.4 1.3 1.8 2.7 3.8 5.2 6.0 7.5 8.4 9.2 12.1															13.8	15.5	21.6							
Sailors Haven 0.9 2.0 3.4 4.2 5.7 6.6 7.4 10.3 12.0 13.7 19.8 Cherry Grove 1.1 2.5 3.3 4.8 5.7 6.5 9.4 11.1 12.8 18.9 Fire Island Pines 1.4 2.2 3.7 4.6 5.4 8.3 10.0 11.7 17.8 Barrett Beach/Talisman 0.8 2.3 3.2 4.0 6.9 8.6 10.3 16.4 Water Island Davis Park 0.9 1.5 2.4 3.2 6.1 7.8 9.5 15.6 Davis Park 0.9 1.7 4.6 6.3 8.0 14.1 Ung Cove 0.9 1.7 4.6 6.3 12.4 Bellport Beach 0.9 1.7 8.9	Point O'Woods 0.9 1.4 2.3 3.4 4.8 5.6 7.1 8.0 8.8 11.7 1															13.4	15.1	21.2							
Cherry Grove 1.1 2.5 3.3 4.8 5.7 6.5 9.4 11.1 12.8 18.9  Fire Island Pines 1.4 2.2 3.7 4.6 5.4 8.3 10.0 11.7 17.8  Barrett Beach/Talisman 0.8 2.3 3.2 4.0 6.9 8.6 10.3 16.4  Water Island 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 0.9 1.7 4.6 6.3 8.0 14.1  Watch Hill 1.5 2.5 3.3 4.8 5.7 6.5 9.4 11.1 12.8 18.9  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Old Inlet 1.6 2.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6  Davis Park 1.5 2.4 3.2 6.1 7.8 9.5 15.6	Sunken Forest 0.5 1.4 2.5 3.9 4.7 6.2 7.1 7.9 10.8 1															12.5	14.2	20.3							
Fire Island Pines 1.4 2.2 3.7 4.6 5.4 8.3 10.0 11.7 17.8 Barrett Beach/Talisman 0.8 2.3 3.2 4.0 6.9 8.6 10.3 16.4 Water Island 1.5 2.4 3.2 6.1 7.8 9.5 15.6 Davis Park 0.9 1.7 4.6 6.3 8.0 14.1 Watch Hill 0.8 3.7 5.4 7.1 13.2 Long Cove 2.9 4.6 6.3 12.4 Bellport Beach 0.9 1.7 8.8 9.5 Old Inlet 0.8 1.5 1.7 7.8	Sailo	s Ha	ven												0.9	2.0	3.4	4.2	5.7	6.6	7.4	10.3	12.0	13.7	19.8
Barrett Beach/Talisman 0.8 2.3 3.2 4.0 6.9 8.6 10.3 16.4 Water Island 1.5 2.4 3.2 6.1 7.8 9.5 15.6 Davis Park 0.9 1.7 4.6 6.3 8.0 14.1 Watch Hill 1.0	Cherr	y Gro	ove													1.1	2.5	3.3	4.8	5.7	6.5	9.4	11.1	12.8	18.9
Water Island       1.5       2.4       3.2       6.1       7.8       9.5       15.6         Davis Park       0.9       1.7       4.6       6.3       8.0       14.1         Watch Hill       0.8       3.7       5.4       7.1       13.2         Long Cove       2.9       4.6       6.3       12.4         Bellport Beach       1.7       3.4       9.5         Old Inlet       1.7       7.8	Fire Is	land	Pine	s													1.4	2.2	3.7	4.6	5.4	8.3	10.0	11.7	17.8
Davis Park 0.9 1.7 4.6 6.3 8.0 14.1 Watch Hill 0.8 3.7 5.4 7.1 13.2 Long Cove 2.9 4.6 6.3 12.4 Bellport Beach 1.7 3.4 9.5 Old Inlet	Barre	tt Be	ach/1	Talisn	nan													0.8	2.3	3.2	4.0	6.9	8.6	10.3	16.4
Watch Hill 0.8 3.7 5.4 7.1 13.2 Long Cove 2.9 4.6 6.3 12.4 Bellport Beach 1.7 3.4 9.5 Old Inlet 1.7 7.8	Wate	r Isla	nd																1.5	2.4	3.2	6.1	7.8	9.5	15.6
Long Cove       2.9       4.6       6.3       12.4         Bellport Beach       1.7       3.4       9.5         Old Inlet       1.7       7.8	Davis	Park																		0.9	1.7	4.6	6.3	8.0	14.1
Bellport Beach       1.7       3.4       9.5         Old Inlet       1.7       7.8	Watc	h Hill	l																		0.8	3.7	5.4	7.1	13.2
Old Inlet 1.7 7.8	Long	Cove	•																			2.9	4.6	6.3	12.4
	Bellp	ort Be	each																				1.7	3.4	9.5
Wilderness Visitor Center/Smith Point Bridge 6.1	Old I	Old Inlet														1.7	7.8								
	Wilde	ernes	s Vis	itor (	Cente	r/Sm	ith P	oint	Bridg	je															6.1



National Park Service
U.S. Department of the Interior

Fire Island National Seashore 120 Laurel Street Patchogue, New York 11772 phone: 631-687-4750 www.nps.gov/fiis

Poison ivy can cause an irritating rash even before its distinctive "leaves of three" emerge.



A "questing" tick waits for a host near the end of a blade of grass.



Help keep wildlife wild.
Use a camera or binoculars
from a distance for a
close-up view of animals.
Never feed deer or other
wild animals

## **Enjoy Fire Island Safely**

Please follow these safety guidelines for an enjoyable visit:

- Stay on the boardwalk to avoid poison ivy.
- Wear shoes on boardwalks to avoid splinters.
- Avoid grassy areas and check yourself frequently for ticks.
- Use sunscreen and insect repellant as needed.
- Follow safe boating procedures and etiquette, and wear life jackets.
- Swim in life-guarded areas.
- Watch for rapid changes in weather conditions and lightning when on or near the water.

## Adhere to all Park Rules

All natural and cultural features within Fire Island National Seashore are protected by law. Thank you for respecting regulations.

- Stay off the dunes and do not damage plants.
- Do not feed, touch, or harass wildlife; animals can be unpredictable and dangerous.
- When and where permitted, pets must be on a 6-foot leash and under physical control.
- Pets, kites, and glass containers are not permitted on life-guarded beaches.
- Stay out of all areas fenced for wildlife and plant protection.
- Metal detectors may not be possessed on park lands.
- Building fires is strictly prohibited.
- Dispose of trash properly. Day use visitors are asked to participate in the park's Carry-In, Carry-Out program to reduce garbage on the island.
- Fire Island personal watercraft (PWC) use is only permitted in the marked channels into some communities. PWCs must remain at least 1,000 feet away from shore in the Atlantic Ocean; in the bay, PWCs must be 1,000 feet away from shore on the western end of Fire Island, and 4,000 feet away from the shore east of the western boundary of Sunken Forest. PWCs are not permitted into Sailors Haven, Barrett Beach/Talisman, Watch Hill or Old Inlet.
- Additional regulations are enforced.

